

Builders' Guide

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ISSUED WEEKLY IN THE INTERESTS OF ARCHITECTS, STRUCTURAL ENGINEERS, CONTRACTORS
AND THE MATERIAL AND EQUIPMENT TRADES

Vol. XXXII., No. 1.

PHILADELPHIA, WEDNESDAY, JANUARY 3, 1917.

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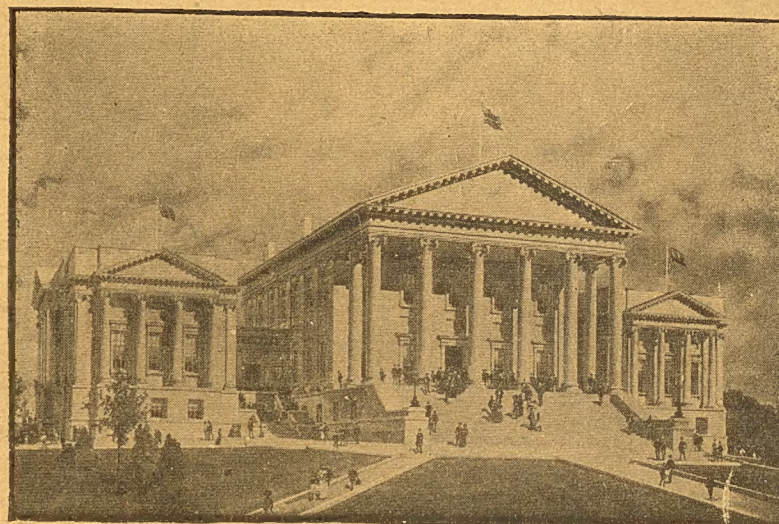
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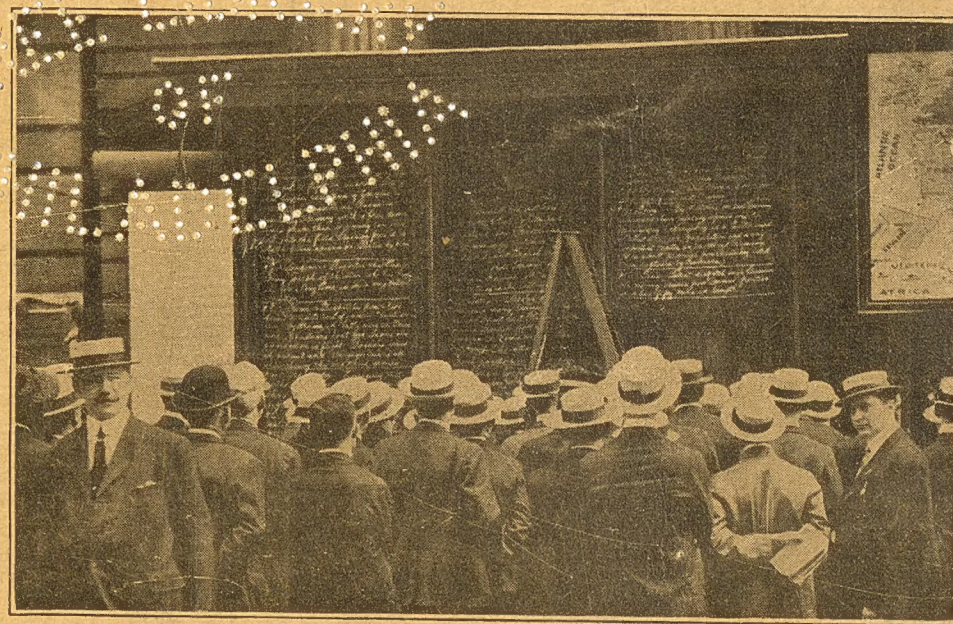
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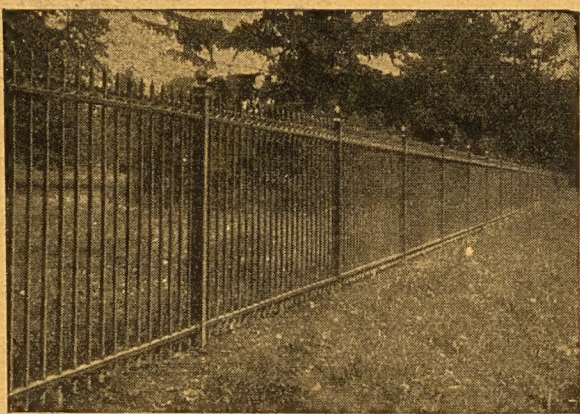
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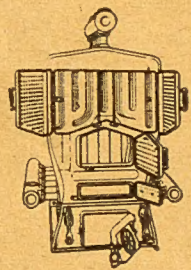
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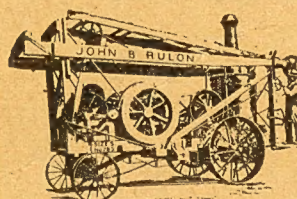
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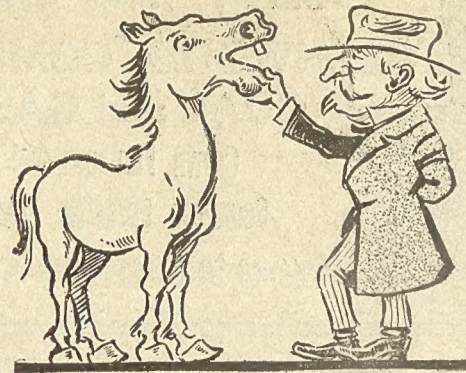
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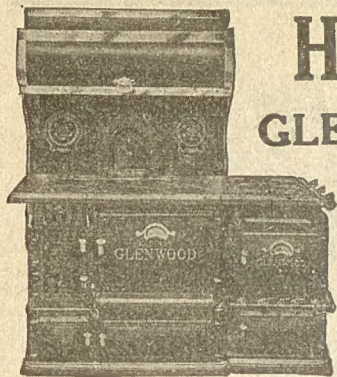
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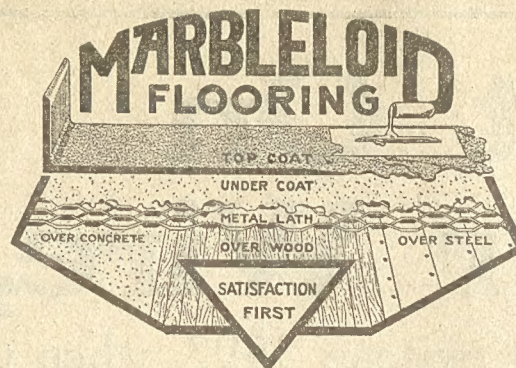


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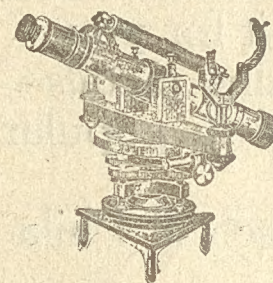


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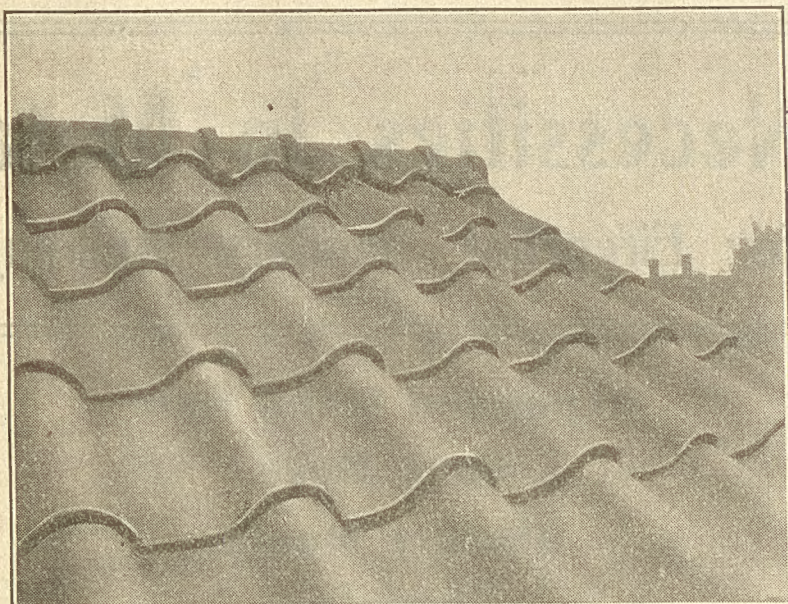
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 1

PHILADELPHIA
January 3, 1917



As The Editor Sees It



EVERYTHING seems to be going up—building material, labor, the cost of living, gasoline, and, by way of keeping step with the tendency of everything else to do a little ballooning now and then, the cost of building permits is to ascend.

If present prospects hold good it is going to cost the builder on an average about fifty per cent. more this year, 1917, for permission to spend his money than it did last year, 1916.

In other words, the city's financiers have decided that the builders, whose activities do more to increase the borrowing capacity of the city than any other class of men, and who are constantly adding accessible units to its total of taxable values, must pay a higher fee for permits beginning January 1st.

The object is to increase the receipts of the Bureau of Building Inspection, but wouldn't it seem that this might be done in some channel other than by adding to the already high cost of building and placing an additional burden upon men whose operations help the city and its revenues in a material sense.

It might be just as well to remember that it is the builder who is the real provider of revenue in the community of today. Taxes are based on realty and improvements. The builder makes improvements that add thousands of dollars annually to the city's receipts from taxation. He is a valuable and material ally of the budget maker and the city finance manager. It is bad technique, if not poor policy, to add to the burden of the builder who has, under existing conditions, burden enough what, with cut-throat competition, advancing labor and expensive and vexatious delay in delivery of certain classes of material due to European demand.

BY the way, I am advised by Mr. George Howe, chairman of the Exhibition Board, that the Twenty-third Architectural Exhibition of Philadelphia Chapter, A. I. A., and the T.-Square Club will take place at the Art Club, March 7th to 25th, 1917.

The coming exhibition is expected to be one of the most notable of the many that have been held here under the same joint auspices.

In the matter of decorative and artistic accessories, an effort is being made to eclipse all previous records.

* * *

FROM Mr. W. E. Mallalieu, General Manager of the National Board of Fire Underwriters, I am in receipt of certain interesting statistics dealing with the fire situation as it applies to Pennsylvania. These figures, Mr. Mallalieu writes me, are the result of an entirely new line of research inaugurated less than two years ago with the co-operation of the National Convention of Insurance Commissioners and the Fire Materials Association. One of the striking things, in connection with these figures, is the enormous extent of fire loss due to *preventable* causes. These statistics have not before been published.

After collating and analyzing the details of a very large percentage of all fires in Pennsylvania, the Actuarial Bureau of the National Board of Fire Underwriters has ascertained the causes of these fires, for the year 1915, with their relative losses to have been as follows:

(Percentages have not been carried beyond one decimal place.)

STRICTLY PREVENTABLE CAUSES.

Defective chimneys and flues	\$399,152 or 4.0%
Fireworks, firecrackers, etc.	21,503 or 0.2%
Gas, natural and	

artificial	118,102 or 1.2%
Hot ashes and coals	32,622 or 0.3%
Ignition of hot grease, oil, tar, wax, asphalt, etc..	19,629 or 0.2%
Hot or molten metal	8,742 or 0.1%
Matches	191,781 or 1.9%
Open fires	160,257 or 1.6%
Open lights	75,249 or 0.7%
Petroleum and its products	63,856 or 0.6%
Rubbish and litter .	33,301 or 0.3%
Smoking Cigars, cigarettes, pipes, etc.)	192,636 or 1.9%
Steam and hot water pipes	35,483 or 0.4%
Stoves, furnaces, boilers and their pipes	393,031 or 4.0%
Total	\$1,745,344 or 17.4%

NOTE.—In each of the above cases, preliminary inspection would have shown the element of danger, which then might have been easily remedied.

* * *

PARTLY PREVENTABLE CAUSES.

Electricity	\$594,323 or 6.0%
Explosions	156,899 or 1.6%
Exposure	1,338,719 or 13.5%
Incendiarism	332,145 or 3.4%
Lightning	291,296 or 2.9%
Miscellaneous, cause known but not classified	175,997 or 1.8%
Sparks—from fires .	159,886 or 1.6%
Sparks—from machinery	26,773 or 0.2%
Spontaneous combustion	428,258 or 4.3%
Total	\$3,504,296 or 35.3%

NOTE.—It is estimated that at least half of the loss occasioned by electricity, sparks from fires, and spontaneous combustion was preventable, and that all the

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other causes had some degree of preventability.

Unknown Causes

(Probably largely preventable) . . . \$4,654,678 or 47.0%

* * *

HERE we have shown a total fire loss of nearly two million dollars in twelve months due to causes every one of which was preventable. In other words we have a property damage of nearly two million dollars due to carelessness on the part of owners or lessees dealing with an easily ascertainable element of fire risk. The most casual inspection would have shown the necessity for action. We have an additional loss within the same period of about three million and a half of dollars due to what the underwriters class as "partly-preventable" causes, such as incendiarism, lightning, explosion, defective wiring, spontaneous combustion, etc., and a loss of more than four million dollars from fires the causes of which could not be traced. A total property loss in one state, Pennsylvania, of approximately ten millions of dollars, probably ninety per cent. of which could have been avoided by the exercise of common business prudence in looking after little details, each carrying its signal of danger. Worth pondering some, don't you think?

* * *

THE year 1916 has been a wonderful year in building. What of 1917 and 1918? Is the tremendous activity of the past twelve months to continue only as long as the war abroad creates a temporary and forced market for American manufacturers, or will this activity continue after the close of that war and show but little abatement? Croakers, here and there, are heard prophesying a sudden slump to conditions bordering on panic following the let-down of this European demand. What of Philadelphia? We asked one of the big men of Philadelphia to give his views as to Philadelphia's future, a man who is an engineer, a financier, a promoter of large enterprises. Let his healthy optimism revive your enthusiasm. Listen to the buoyant, hopeful, sanely-reasoned argument of a man who knows his Philadelphia:

"Philadelphia is going to occupy a unique position among American municipalities during the coming decade. It is going to lead all great American municipalities in commercial business, railroad, shipping, ship building, manufacturing and municipal development.

"At present there are by far too few people in Philadelphia to carry on the work which is already authorized and which must be carried out. The additional people needed to carry on Phila-

delphia's great works will flood into this city as soon as munition plants complete their war orders, and other plants slacken up, and the workers therein are thus relieved.

"Long after business slackens up elsewhere throughout the United States Philadelphia will remain a foremost and most persistently busy center in this country.

"For many years to come we are going to experience a vast yearly increase in population, made necessary for the carrying out of the undertakings already under way or assured.

"Here are the facts:—

"Philadelphia is the center of the ship building industry. We must look at Philadelphia broadly, as not bounded by municipal lines but as including the great area surrounding this City which trades here, and which is as dependent upon the city and a part of this city as the spokes and rim of the wheel are to the hub.

"When we look forward to the tremendous increase in ship building, which is made necessary by the expansion of the American Navy and American commerce, and for the renewal of ships destroyed, and realize that the facilities to the great ship yards tributary to Philadelphia will be taxed far beyond their present capacity for the next decade in carrying on this profitable work, we must also recognize the enormous prosperity which will come not only to the ship building industry but to every industry which follows in its wake,—the marine engine building plants, the ship plate plants, and allied industries. The prosperity which is guaranteed to these allied industries will also extend to those industries which follow in turn in their wake. Furthermore, the effect will be cumulative.

"The great expansion and prosperity which is assured the Midvale Steel Works and the Baldwin Locomotive Works, the Brill Car Works, etc., which will have to meet the demands imposed by an enormous deferred maintenance of railroad locomotives and equipment due, first to unsatisfactory financial conditions up to two years ago, later, to abnormally high prices of steel and steel products, which have caused the railroads to hesitate in making purchases.

"We know that the railroads are going to expend vast sums of money here improving their terminal facilities, and one of these notable expenditures will be a joint expenditure agreed to between the railroads and the city in the removal of grade crossings in South Philadelphia, and the providing of terminal facilities there, at a cost of \$25,000,000.

WE know that the city is committed to expenditure of \$62,000,000 for the construction of subway and elevated railway lines, and that the equipment of these lines will call for an addition expenditure of over \$15,000,000.

"We know that the city is committed to expend \$10,000,000 on new wharves and docks, and that this expenditure, coupled with added railroad facilities, will bring a vast added freight movement by water and rail through Philadelphia, large numbers of ships which will sail to and from this port, and will make necessary purchases of supplies here also.

"We know that the city is committed to the expenditure of nearly \$40,000,000 for the completion of the Parkway, for the building of Convention Hall and Municipal Library, for the extension of the sewage and water systems, and other municipal developments.

"We know that the government is committed to build ships at the Philadelphia Navy Yard.

"These are only a few of the important items which must necessarily lead to the conclusion that Philadelphia's population will soon pass the 2,000,000 mark, and leave that mark far in the rear.

"All these great and municipal developments will employ scores of thousands of additional men in their upbuilding, and their operation will give profitable employment to tens of thousands.

"This great added population of the city, profitably employed, will have an enormous purchasing power which will be reflected in the sales of manufacturing and merchandising houses of all kinds in this city.

"It will bring prosperity all along the line—to the butcher, to the baker, to the grocer, to the drygoods merchant, to the public utilities, and to every financial business interest in this city.

"This added business will call for a large added force to handle it.

"The net result from a building standpoint is that Philadelphia must provide to house several hundred thousand additional people within the next five years. The normal increase in population in this city has been about 25,000 to 30,000 a year, but abnormal conditions are confronting us which guarantee the necessity of a vast increase in housing and business facilities in this city, which thoughtful builders will anticipate, and which will bring unbounded prosperity to all the building trades, as well as vast profits to real estate owners.

"The business man who realizes these prosperous conditions which confront this city, and who anticipates them, is bound to profit."

I WISH I could divulge the name of the man who gave me this statement. He is one of the men who has helped to make Philadelphia; he is a man whose name is always found high up on the roll of any movement undertaken to advance the position of Philadelphia as a center of homes and home advantages. With a modesty that is quite characteristic, he requests that his name be omitted. No man in Philadelphia's commercial or financial life is better equipped to discuss

with authority the city's future. Read his statement carefully. Analyze the facts he marshals to support his views. Let the "New Philadelphia" note of optimism sink into your soul and conscience.

And a Happy New Year to you and a busy and prosperous New Year to you, with a procession of other happy and prosperous years ahead of it stretching off to the new and greater Philadelphia of our dreams.

tic-Marshall Co. will furnish 7,000 tons for the improvements to the plant of the New York Shipbuilding Co. at Camden, N. J. The new Dreier loft building in East 57th street, N. Y., will take 900 tons. The fabrication plants now have orders booked for at least four months in advance, and if the car shortage and freight situation is not relieved in the near future deliveries will be impossible in less than six months' time.

* * *

PITTSBURGH, Dec. 28.—Thirty-two officers and members of the Master Plumbers' Association, a national organization, pleaded guilty in the United States Court to charges of conspiracy to violate the Sherman anti-trust law, and were sentenced to pay fines that aggregate \$5,625.

Members of the association, in session here, are considering a voluntary acceptance of an injunction that will prohibit them from continuing their organization.

The government investigations into the conspiracy began in 1912. Convictions were obtained last fall at Salt Lake City and Des Moines.

Frank Fee, of New York, was assessed the heaviest fine, \$500, and he must pay costs amounting to \$200. Fee, it was testified, directed a campaign against the Thompson-Starrett Construction Company, the object being to put that corporation out of business.

S. Louis Barnes, formerly national president of the association, must pay \$50 fine and \$50 costs. William McCoach, of Philadelphia, formerly national treasurer

EDITORIAL NOTES

Commodity prices continued to skyrocket in spite of the numerous Municipal, State, and Federal investigations either under way or threatened. Bradstreet's Index Number as of December 1, marks a new high level, reflecting an advance of 7.9 per cent. over November 1, and increase of 28 per cent. over December 1, 1915, and 51 per cent. over that of December 1, 1914. So many new records have been established that reports registering new heights are becoming quite commonplace. Investigations evidently do not furnish the solution to the problem and the consumer, who in the final analysis bears the burden, is confronted with the possibility of even greater and more appalling advances in the prices of his commodities.

* * *

Some one has taken the trouble to ascertain that more than 400 kinds of marble are used in construction work in New York City.

* * *

The annual loss through fire in the United States reaches the enormous total of \$225,000,000, without including the loss through prairie fires or marine fires, said the State fire marshal of Minnesota. This means a per capita loss of about \$2.25. If this money could be saved it would be enough to support the entire public school system.

* * *

The National Workmen's Compensation Bureau during the week notified the New York, Massachusetts and Pennsylvania Insurance Departments that the bureau has decided on the basis of an examination of company experience that an immediate revision of the workmen's compensation insurance rates is imperative, and that its manual committee has been empowered to begin the necessary work at once. Further, the actuarial committee has been instructed to make a thorough investigation of, and a revision if necessary, of the methods of calculat-

ing the various State multipliers. The action of the bureau is largely the result of the letter of the New York Department showing that workmen's compensation rates in this State were decidedly inadequate. The proposed revision will include the readjustment of the multipliers of other States on a basis of greater experience than heretofore and affords a satisfactory basis for checking up those multipliers. It is expected that the work will be completed by March 1, 1917.

* * *

If your sidewalks are of cement do not put salt on them to melt the ice during stormy winter weather. The action of salt is detrimental to concrete. In creameries, where salt comes in contact with the floors constantly, it is stated that floors last only a few years. "The salt does not act on the cement, but destroys the gravel and other material and leaves the floors or walks honey-combed, so that they soon break down."

* * *

While the prices of structural shapes have not advanced, the market has been especially active when consideration is given to the number of contracts placed for this material. The week passed has witnessed the booking of important orders for early delivery, orders that total an immense tonnage, particularly for this time of the year. Among the contracts placed during the week are included the order of the American Bridge Co. for 2,600 tons of steel for the construction of the pier shed at Baltimore for the Baltimore & Ohio Railroad, 1,250 tons for the steel work for the five bridges for the Pennsylvania Railroad and 500 tons for bridge construction for the Lehigh Valley Railroad. The plant for the De Laval Separator Co., at Trenton, N. J., will require approximately 250 tons, contracted for by L. F. Shoemaker & Sons; Levering & Garrigues have taken 1,100 tons for the Sheffield Farms-Slawson, Decker Co. plant at Brooklyn; and the McClint-

BUILDERS' GUIDE

FORMERLY

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of the plumbers, was ordered to pay \$100 fine and \$50 costs.

B. F. Durkin, of Philadelphia, was fined \$50 and \$25 costs. Charles Fisher, James H. Lutz, Jr., and Charles K. Will, all of Lancaster, and George W. Gast, of Harrisburg, who are said to have controlled the operations of the plumbers' association in central Pennsylvania, must pay fines of \$100 each and costs of \$50.

Other defendants and their fines are: Richard Turner, Wilkes-Barre, \$100 fine, \$50 costs; Fenton T. Evans and Charles L. Titus, Uniontown, \$100 fine and \$50 costs; Harry L. Burd, Uniontown, \$50 fine and \$50 costs.

* * *

Another allotment of \$2,500,000 toward the construction of the proposed high speed transit lines and the improvement of the port will be made in the \$12,774,200 loan, which is to be sold to the highest bidder at Mayor Smith's office, Janu-

ary 8. The additional allotment for transit and port improvement makes \$5,000,000 of the \$67,000,000 loan to be floated for such work.

The \$12,774,200 is part of the big loans, aggregating \$114,525,000, which were recently authorized. Several months ago the first installment of these loans, amounting to \$10,000,000, was floated. With the installment of \$12,774,200 sold, there will remain \$91,750,800 of them still to be negotiated.

* * *

Effective January 1st, the Lehigh Portland Cement Company announces the removal of its Philadelphia office to 1301 Finance Building, South Penn Square. B. L. Snett, Eastern Sales Manager, makes the announcement in a neat card expressing his appreciation of the many favors shown him by Philadelphia customers and pledging a continuance of the Lehigh Company's co-operation and service.

THE TREND OF PRICES OF BUILDING MATERIALS

Among architects and others interested in the cost of building, the actual situation in the construction field is not always entirely understood, and at the present time particularly the percentages of increase in prices of materials that have taken place since the effect of the war in Europe has been felt in this country, are being quoted by architects to their clients in the most general terms, due apparently to a lack of definite and specific information.

It is of interest to note that in spite of the fact that during the past year and a half prices of building material have been steadily increasing, the plans filed for building operations indicate that in general a greater volume of work has been going on during that period than when prices were normal. Of course, consideration should be given to the fact that a large percentage of the permits granted never proceed further, or are delayed by a variety of causes, so proper allowances must be made when estimating the amount of building that will be done within the current year. At the present time, there is far from unanimity of opinion among manufacturers and dealers in building materials regarding the price situation in the building field: some claim that when the war ceases prices will drop because in their opinion the principal stimulus to our present expansion has been due to this cause, while others declare that as long as the cost of labor remains high the market will hold firm and little can be expected in the nature of a decline.

Before reviewing the market on building materials, it may be of interest to glance at the figures for operations during the past few

months. Permits for May covering seventy-seven of the principal cities show the largest amount of proposed work for any single month during the history of our country, the total aggregating \$106,433,902. The closest approach to this record was in April of 1912, when the amount nearly touched the million dollar mark. From figures compiled for the month of June covering sixty-four of the cities, the total reaches \$76,739,283, which compares most favorably with the previous month's report, when the fact is considered that reports from thirteen cities were omitted.

Without doubt the most noticeable advances have been made on various steel products. Such suddenly increased demands were brought about by the European war that prices rapidly rose, and in comparison with a year ago in most instances have about doubled. For structural material in July of 1915 the Pittsburgh mill quotations ranged from \$1.25 to \$1.30 per 100 pounds, while from warehouse in New York prevailing prices were \$1.95 to \$2.00. To-day from mill, Pittsburgh, \$2.50 to \$2.75 is asked for ordinary shapes, while plates bring from \$3.00 to \$3.25. In New York prices on structurals are firm, at \$3.25 to \$3.30, while \$4.00 is asked for plates. From warehouses in St. Louis the price is \$3.43; Chicago, \$3.10, and San Francisco, \$4.25. The change in quotations on this material has added millions of dollars to construction work in New York, the City of New York itself having several million dollars added to its bill for the construction of subways.

The industrial expansion in this country,

due largely to war business, brought with it the requirement of more buildings and steel was in such a demand that it was oftentimes sold at a good premium. Conditions are now more favorable for furnishing the increasing supply. The capacity of mills having been increased, manufacturers are now in a better position to cope with the demands and within the past month prices on some shapes have eased off.

On concrete reinforcing bars the same condition applies. From mill shipments for $\frac{3}{4}$ -inch sizes, \$2.50 per 100 pounds is asked, and from New York warehouse the price is \$3.10. In St. Louis \$3.24 is quoted; Chicago, \$3.10; San Francisco, \$4.00. A year ago this time $\frac{3}{4}$ -inch size from mill were \$1.25 per 100 pounds, and from warehouses, New York, \$2.05 was quoted.

With the large demand for structural steel it naturally follows that an advance on rivets would take place, as both are used for one purpose. At present per 100 pounds, f. o. b. Pittsburgh, $\frac{3}{4}$ -inch structural steel rivets sell at \$4.00 per keg. In New York they are \$5.25; Chicago, \$3.50; St. Louis, \$3.55; San Francisco, \$5.40.

Plain wire nails per keg in carload lots are \$2.50 to \$2.60, f. o. b. Pittsburgh; for galvanized one inch and longer, \$4.50 to \$4.60 is asked, and shorter galvanized \$5.00 to \$5.10. In New York wire and cut nails sell at \$3.15; in Cleveland, at \$3.05, and Chicago, \$2.85.

Steel sheet piling from mill pittsburgh sells at \$2.50 per 100 pounds, while one year ago it could be had at \$1.60.

Portland cement per barrel in cotton bags for carload lots sells at \$1.72 in New York, while a year ago \$1.33 was the prevailing price. In Boston it is \$1.92, as compared with \$1.56 a year ago; Chicago, \$1.81, against \$1.51 of last year. The demand for this material has also been excessive, not alone for building construction, but for engineering projects in general.

For gravel the quotations current at this time are as follows: $1\frac{1}{2}$ -inch in New York sells at 90 cents per cubic yard for carload lots and \$1.00 for $\frac{3}{4}$ -inch. In Chicago the price is 85 cents for both the former and the latter, and in St. Louis 70 cents. In San Francisco it is sold at 75 cents per ton.

For sand at the banks the quotations are as follows: New York, 50 cents per cubic yard; Chicago, 85 cents; St. Louis, 60 cents, while in San Francisco it is 75 cents per ton. These prices are for cargo lots. In the past year an advance has been made of about 10 cents, which was brought about principally by labor difficulties and scarcity of carriers.

For crushed stone in New York $1\frac{1}{2}$ -inch sells at 85 cents to 90 cents, $\frac{3}{4}$ -inch at \$1.00. In Chicago at \$1.10 and St. Louis \$1.00.

"These prices are per cubic yard for carload or cargo lots. In San Francisco it is \$1.75 per ton. Dealers and supply men in this line have also had considerable difficulty owing to freight congestion, shortage of

(Continued on page 871.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (22), Rockland street between Ninth and Tenth streets. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x48 feet, slag roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Store and Dwelling (alt. and add.), 5902 Baltimore avenue. Architects, Heacock & Hokanson, 1213 Chestnut street, Philadelphia. Owners, Estate of Bernard MacMackin, Land Title Building. Brick, 3 stories, tin roof, electric light, gum floors, new bulks, tile work (heating, electric fixtures and show cases reserved). Architects taking revised bids, due January 4th. F. B. Davis, 240 North Sixteenth street; Wm. H. Eddleman & Sons, 453 Green lane; Ferguson & McDowell, 1003 S. Fifty-first street, are figuring.

Residences (2), Stenton, Philadelphia. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owners, Muran, Dolman & Co., Franklin Bank Building, Philadelphia. Stone, 2½ stories, 30x62 feet, wing 12x12 feet, and 29x50 feet, slate roof, vapor heating, electric lighting, oak and pine floors, hollow tile, tile work. Plans completed. Owners will take bids in a few days.

Factory and Garage, Forty-third street and Second avenue. Engineer, N. M. Loney, 120 Broadway, New York City. Owners, American Can Co., 447 West Fourteenth street, New York City. Reinforced concrete and brick, 6 stories, 201x309 feet, reinforced concrete and composition roof, composition and cement floors, metal lath, rolled steel sash, kalamein and fire doors, waterproofing, ventilators, safety treads, tile work, hollow tile, rolling steel doors (heating, lighting, elevators, metal lockers, gasoline storage system reserved). Owners taking bids, due January 10th. Warren Moore Co., Commercial Trust Building, Philadelphia, is figuring.

Residences (23), Sixty-sixth and Elmwood avenue. Architect, E. Allen Wilson, 1205 Chestnut street, Philadelphia. Owner, Joseph Winokur, 133 South Twelfth street, Philadelphia. Brick, 2 stories, 16x32 feet, and 16x40 feet, slag roof, hot water heating, electric lighting, parquet floors. Plans completed. Owner ready for sub-bids on all lines.

Department Store (alt. and add.), Eighth and Market streets. Architect, Frank Seeburger, 1103 Pennsylvania Building, Philadelphia. Owners, Strawbridge & Clothier, on premises. Consists of new fire tower and elevator lift, brick, reinforced concrete, stone trimmings, 6 stories, 21x12 feet, slag roof, metal lath, fire doors, hollow metal skylights (elevator and alterations to heating, lighting and sprinkler system reserved). Architect taking bids, due January 4th. Stacy Reeves & Sons, 2011 Market street; Cramp & Co., Denckla Building; Frank G. Stewart, 1619 Sansom street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

Saloon and Dwelling (alt.), 10 North Fifth street, Philadelphia. Architect, Frank V. Greenstein, 715 Empire Building, Philadelphia. Owner, name withheld. Brick, 4 stories, steam heating, electric lighting, metal ceiling, tile work, terrazzo work, metal store front. Architect will take bids in one week.

Residence and Garage, 710 W. Upsal street, Germantown. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Own-

er, Harrison I. Potts, 316 North Third street, Philadelphia. Stone, 2½ stories, 35x65 feet, slag roof, hot water heating, electric lighting, metal lath, hardwood floors, tile work. Plans in progress. Architect ready for sub-bids in one month.

Factory (add.), 4058 Haverford avenue, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owners, Wm. Birmingham & Co., on premises. Brick, slow burning, 3 stories, 24x35 feet, slag roof, metal lath, rolled steel sash, maple and composition floors (plumbing, heating and lighting reserved). Architects have received ids.

Loft Building, southwest corner Marshall and Cherry streets, Philadelphia. Architect, Frederick Webber, 1421 Chestnut street, Philadelphia. Owners, name withheld. Brick, steel, reinforced concrete and terra cotta, 6 stories, slag roof, steam heating, electric lighting, metal lath, sheet metal sash, waterproofing, fire doors, cement and mosaic floors, elevators. Architect taking bids, due January 4. Cramp & Co., Denckla Building, and John R. Wiggins & Co., Heed Building; Warren-Moore & Co., Commercial Trust Building; Nickson Dugan Const. Corp., 1218 Chestnut street, Philadelphia, are figuring.

Coal Trestle, Sixteenth and Indiana avenue, Philadelphia. Architect, private plans. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Lessees, Lampert Coal Co., on premises. Concrete piers (cement reserved). Owners, care J. H. Gumbes, supt., Thirty-second and Powelton avenue, have received bids.

Store (alt. and add.), 3412-14 Germantown avenue. Architect, private plans. Owner, Harry Zibman, on premises. Brick, 1 story, addition, 50x50 feet, slag roof (heating and lighting reserved), pine floors, new bulk windows, marble work. Owner taking bids, due in one week. Henry P. Schneider, 3713 Old ork road; Fischer Bros., 3022 North Warnock street, and Jacob Y. Loux, 1121 Rising Sun lane; H. H. Bunell, 206 South Quince street, Philadelphia, are figuring.

Residences (54), Wyoming avenue and Hurley streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Henry Swartz, 5028 Kingessing avenue, Philadelphia. Brick, 2 stories, 16x32 feet (airlite), slag and tin roofs, hot water heating, electric lighting, hardwood floors. Owner is ready for sub-bids on all lines.

Residence, Cliveden, west of Wissahickon avenue. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Fletcher, McNally & Boas, Broad and Race sts. Stone, 3 stories, 30x53 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Plans about completed. Architect will take bids in about ten days.

Garage, 1509-11 Germantown avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Harry Katz, 1527 Germantown avenue. Brick, 1 story, 40x96 feet, slag roof, electric lighting, cement floors, gasoline storage system, galvanized iron skylights. Owners will take sub-bids in a few days.

Bank Building (alt. interior), 325-31 Chestnut street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners,

Fidelity Trust Co., on premises. Brick, concrete and hollow tile, 2 stories, plumbing, steam heating, combination lighting, metal lath, wire grilles, maple floors, metal lockers, dumbwaiters, rolling steel shutters, tile and marble work. Architect taking bids, due January 8th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; F. L. Hoover & Sons, 1027 Cherry street; Jacob Myers Sons Co., Witherspoon Building; H. H. Bunell, 206 South Quince street, and F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Store (alts.), Marshall and Girard avenue, \$10,000. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Max Hawtof, 816 Girard avenue, Philadelphia. Consists of general interior alterations. Architects taking bids, due January 4th at noon. The following are figuring: Smith-Hardican Co., 1606 Cherry street; Hogg Construction Co., 1634 Sansom street; Lam Building Co., 1001 Wood street; Freund Construction Co., Bulletin Building, and Daniel J. McNamee, 1621 North Fifteenth street, Philadelphia.

Recreation Park and Playground, Fifty-first and Chester avenue. Architect, Philip H. Johnson, 1824 Land Title Building, Philadelphia. Owners, City of Philadelphia, Board of Recreation, room 537, City Hall. Swimming pool, brick and reinforced concrete, stone trimmings, 1 story, 113x95 feet, slag roof, cement floors (plumbing and electric work separate bids). Lowest bids submitted by F. G. Stewart, 1619 Sansom street, \$29,078; J. S. Flounders, 1329 Arch street, \$30,329.

Bakery Building (alt. and add.), 1222-34 Ridge avenue. Architects, Barthberger, Jones & Fisher, 1014 Westinghouse Building, Pittsburgh, Pa. Owners, Parkway Baking Co., Twenty-fourth and Hamilton streets, Philadelphia. Brick, 4 stories, slag roof (steam heating reserved), metal lath, cement and composition and maple floors, hollow tile. Owners taking bids. John V. Speth & Co., 1714 Sansom street; Paul J. Essick, 1345 Arch street, are figuring.

Town Hall (repairs), Haines street and Germantown avenue. Architect, Louis E. Marie, City Hall. Owners, City of Philadelphia, Bureau of City Property, Dept. of Public Works, room 113, City Hall, Philadelphia. Consists of carpenter work, painting, plastering, tin and slate roof, metal lath. Lowest bid submitted by E. C. Durell, 1713 North Twenty-fourth street, \$3,830.

Dormitory Building (5), and Connecting Corridors, Byberry, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dr. Wm. Krusen, director, Dept. of Public Health and Charities, City Hall. Brick and stone and hollow tile, (1) 2 stories, 54x82 feet and (4) 160x50 feet, slate and slag roof (plumbing, vacuum heating and electric lighting separate bids), metal lath, pine floors, waterproofing and dampproofing, weatherstrip, safety treads, tile and marble work, terrazzo work, metal window guards. Low bidders, E. F. Fonder & Co., Land Title Building, Philadelphia, \$631,900.

Factory Building, Nineteenth and Allegheny avenue, \$500,000. Architects, Wm.

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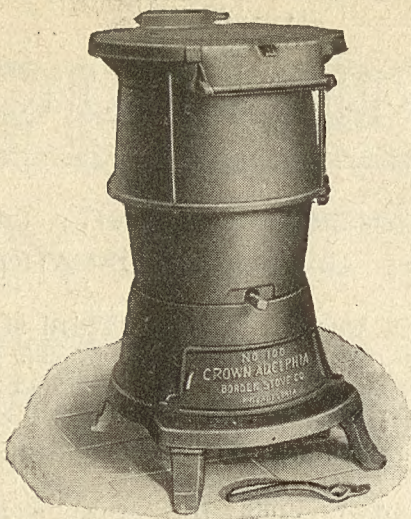
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Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Electric Storage Battery Co., on premises. Reinforced concrete and brick, 2 stories, 130x163 feet, slag roof, steam heating, electric lighting, rolled steel sash, waterproofing, fire doors, sprinklers, reinforced concrete and maple floors, elevators, rolling steel doors. Builders Wm. Steele & Sons Co., 1600 Arch street, will take sub-bids about January 3, 1917.

Cafe, 9-11-13 North Seventh street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Charles Ricker, 10 North Seventh street, Philadelphia. Brick, 3 stories, 32x50 feet, slate and tin roof, hardwood floors, (2) dumb-waiters, cabinet work. Plans in progress.

Residences and Garages, Pelham, Philadelphia, \$250,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Killough, Wayne avenue and Duval street, Philadelphia. Stone, 2½ stories, slate and tile roofs, hot water heating, electric lighting, hardwood floors, tile work, metal lath, cement floors, gasoline storage systems. Plans in progress. Owner will be ready for sub-bids in about one month.

Storage House (add.), Thirty-eighth and Powelton avenue, Philadelphia. Architects, Sheen & Gill, Heed Building, Philadelphia. Owners, Powelton Storage House, on premises. Brick (slow burning), 5 stories, 36x70 feet, slag roof, pine floors. Plans completed. Architects about ready for bids.

Residences (170) Twenty-ninth and Allegheny avenue, Philadelphia. Architect, private plans. Owners, Morris L. Miller & John H. Kane, Commonwealth Building, Philadelphia. Brick, 2 stories, 16x50 feet and 15x46 feet, slag roof, hot water heating, electric

lighting, hardwood floors, tile work. Owners ready for sub-bids.

Parochial School, Thirty-eighth and Spring Garden streets, Philadelphia. Architects, E. F. Durang & Sons Co., 1220 Locust street, Philadelphia. Owners, St. Agatha's R. C. Church, care of Rev. M. J. Donovan, on premises. Stone, 3 stories, 60x128 feet, slate roof, steam heating, electric lighting, fire tower, metal lath, slate work, cement work, hardwood and composition floors, auditorium on first floor. Plans in progress. Will take bids in three weeks.

Office and Warehouse, 12-14 South Sixth street, Philadelphia (alt. and add.). Architects, E. F. Durang & Sons Co., 1220 Locust street, Philadelphia. Owners, Irwin N. Margaree & Co., 12 South Sixth street, Philadelphia. Brick, 6 stories, 40x66 feet, slag roof, steam heating, electric lighting, 3 freight elevators, metal sash and lath. Plans in progress. Will be ready for bids in about two weeks.

Store and Warehouse (alt.), northeast corner Arch and Watts streets, \$1,500. Architect, private plans. Owners, Alfred Lowrey & Bro., 50 North Delaware avenue. Alteration to 1st floor. Consists of brick work, plastering, pine floors, iron work and mill work. Joseph E. Pennock, 2128 Land Title Building, will superintend construction for owners.

Garage and Store, northeast corner Arch and Felton streets, \$8,000. Architect, Conrad F. Neff, 824 Heed Building, Philadelphia. Owner, Mrs. Annie Smith, 327 South Sixth street, Philadelphia. Brick, 1 story, 21x110 feet, slag roof, cement and pine floors, bulk windows (steam heating and electric work reserved). L. Kaplan, 518 Spruce street, will superintend construction for owner.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, Chestnut Hill, Philadelphia. Architects, Duhring, Okie & Ziegler, Bailey Building, Philadelphia. Owner, Dr. Geo. Woodward, North American Building, Philadelphia. Stone, 2½ stories, 74x30 feet, 1 story, 14x22 feet, slate roof (heating, electric work, plumbing reserved), hardwood floors,

tile work, cement floors, metal lath. Contract awarded to Wolverton & Collins, 7928 Germantown avenue.

Shelter Shed, Thirty-sixth and Grays Ferry road, \$7,900. Architect, private plans. Owners, Barrett Mfg. Co., on premises. Consists of elevating roof, steel and corrugated iron.

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Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Garage (alt.), Broad and Melon streets, Philadelphia, \$4,500. Architect, private plans. Owner, Samuel Gorson, 232 North Broad st., Philadelphia. Brick, 8 stories, steam heating, cement floors, (1) elevator. Contract awarded to J. C. Haldeman, Pleasant avenue, Chestnut Hill, Pa.

Loft Building, Sixth and Filbert streets, \$450,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Hale & Killburn Co., Twelfth and Lehigh avenue, Philadelphia. Brick, steel, reinforced concrete, terra cotta, 8 stories, 237x122 feet, slag roof, vacuum heating, electric lighting, rolled steel sash, waterproofing, metal lath, fire doors, ventilators, sprinklers, tile and marble work, cement and maple floors, hollow tile, elevators, terrazzo work. Contract awarded to Cramp & Co., Denckla Bldg., Philadelphia.

Residence, Haverford, Pa., \$9,000. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Robert O. Clothier, Haverford, Pa. Brick, 2½ stories, 40x25 feet, shingle roof, vapor-vacuum heating, hardwood floors, electric lighting (heating

and electric work reserved). Contract awarded to Elfreth & Co., 1633 Ranstead street.

Garage, Latham Park, Montgomery County, Pa., \$6,000. Architect, P. J. Kluges, 1012 Walnut street, Philadelphia. Owner, Richard L. Steiner, Westmoreland and Howard streets. Stone and plaster, 1½ stories, 36x24 feet, tile roof, hot water heating, electric lighting; metal lath, cement and pine floors. Contract awarded to E. E. Hollenbach, Fifteenth and Race streets.

Lodging House (alt. and add.), 824 Race street, Philadelphia. Architect Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Goldberg, on premises. Brick, 3 stories, 40x60 feet, slag roof, hot water heating, electric and gas lighting, yellow pine floors, plumbing. Contract awarded to Frank Kaiser, 1517 South street, Philadelphia.

Residence (alt. and add.), 477 Locust avenue, Germantown, \$4,000. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owner, Walter P. Shipley, on premises. Brick and plaster, 2 stories, tin roof (heating reserved), electric lighting, parquet and pine floors, tile work. Contract awarded to I. A. Dunkelberger, 71 East Herman street.

PENNSYLVANIA

Construction News

Residence, Ithan, Pa. Architects, Mallor, Meigs & Hess, 205 South Juniper street, Philadelphia. Owner, John F. Meigs, 2d, North American Building, Philadelphia. Stone, 2½ stories, 26x62 feet, shingle roof, oak and pine floors, waterproofing (plumbing, heating, electric work reserved). Architects taking bids, due January 8th. The following are figuring: Elfreth & Co., 1633 Ranstead street; Milton W. Young, Overbrook, Pa.; Wolfe & Dilworth, Bryn Mawr, Pa.; Alfred James, Bala, Pa.; Wm. H. Eddleman & Sons, 483 Greer lane, Roxborough, Pa.

Hospital (alt. and add.), Bryn Mawr, Pa. Architect, Furness, Evans & Co., Franklin Bank Building, Philadelphia. Owners, Bryn Mawr Hospital, on premises. Stone and hollow tile, 3 stories, addition, 30x60 feet, slate and copper roof (heating reserved), electric lighting, metal lath, pine, cement and terrazzo floors. Architects taking bids, due January 3d. The following are figuring: Jacob Myers & Sons Co., Witherspoon Building; Wm. R. Dougherty, 1610 Sansom street; J. S. Cornell & Sons, Land Title Building; Frank H. Mahan, Ardmore, Pa.; Wolfe & Dilworth, Bryn Mawr, Pa.; and Geo. L. Croll, Bryn Mawr, Pa.

Passenger Station, Douglassville, Pa. Arch-

itect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading Railway Co., Reading Terminal. Brick, stone and stucco, 1½ stories, tile roof, steam heat, electric lighting, pine floors, tile and marble work. Plans completed. Owners will take bids in a few days.

Residences (80), Chester, Pa. Architect, E. Allen Wilson, 1206 Chestnut street, Philadelphia. Owner, Wm. H. Freihofner, Twentieth and Indiana avenue, Philadelphia. Brick, 2 stories, 24x30 feet, in pairs, fours and sixes, tile, slag roofs, hot water heating, electric lighting, hardwood floors. Plans in progress. Owner will be ready for sub-bids in about ten days.

Sunday School and Parish House, North Franklin street, Wilkes Barre, Pa. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Brick, 3 stories, slag and slate roof, steam heating, electric lighting, metal lath. Plans in progress. Too early for details.

Apartments (alt.), N. Franklin street, Wilkes Barre, Pa., \$20,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Brick, 3 stories, 49x80 feet, slag roof, steam heating,

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hardwood floors, electric lighting, metal lath. Plans in progress.

Residences (75) Elmwood Park, Bethlehem, Pa., \$200,000. Architect, Geo. S. Welsh, Coal Exchange Building, Wilkes Barre. Owners, Dodson Realty Corporation, Bethlehem, Pa. Hollow tile, brick and stucco, 2 stories, 16x40 feet, slag roof, hot air heating, electric lighting, hardwood floors, hollow tile. Plans in progress.

Oce Building (interior alts. and new front), Public Square, Wilkes Barre, Pa., \$15,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Consists of interior alterations, store front, interior partitions, iron stairway, marble treads, elevator enclosure, tile and marble work. Plans in progress.

Garage (interior alts.), W. Market street, Wilkes Barre, \$15,000. Architect, Geo. S. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, J. W. Hollenbach, West Market street, Wilkes Barre. Brick, 4 stories, steam heating, electric lighting, marbleoid floors, (1) elevator. Plans completed. Owner will take sub-bids.

Store and Apartments, Berwick, Pa., \$25,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Brick, 2 stories, 60x180 feet, steam heating, electric lighting, metal lath (store fixtures reserved), wood floors. Plans in progress.

Residence, Riverside Drive and Sheldon st., \$7,000. Architect, Frank Sahn, Second National Bank, Wilkes Barre, Pa. Owner, Jos. Cohen, S. Main street, Wilkes Barre, Pa. Stucco, 2½ stories, 28x40 feet, slate or shingle roof, steam heating, electric lighting, metal lath, tile and marble work, hardwood floors. Plans in progress.

Comfort Station, near Scranton, Pa., \$15,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Concrete, 1 story, steam heating, electric lighting. Plans in progress. Too early for details.

Residence (alt. and add.), Quakertown, Pa., \$11,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Consists of general alterations and additions, steam heating, electric lighting, slate roof, hardwood floors. Plans in progress.

Apartment House (alt.), Scranton, Pa., \$10,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Frame and stucco, 3 stories and

basement, 40x45 feet, slag roof, steam heating, electric lighting, metal lath. Architects will take bids soon.

Garage, 605 Webster avenue, Scranton, Pa., \$2,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, A. S. Warman, on premises. Frame, 1 story, 20x30 feet, steam heating, electric lighting, slate roof. Architects have received bids.

Parish House, Williams street, Pittston, Pa., \$10,000. Architect, John J. Hawley, Traders Bank Building, Scranton, Pa. Owner, Rev. Andrew Jurica, Pittston, Pa. Brick, 2½ stories, 34x40 feet, slate roof, steam heating, electric lighting, hardwood floors, tile and marble work. Architect will soon take bids, due February 1st.

Parochial School, Williams street, Pittston, Pa., \$15,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, R. C. Church of St. John the Baptist, Rev. Andrew Turica, Pittston, Pa. Brick, 3 stories, 75x24 feet, slag roof, steam heating, electric lighting, metal lath, wood floors. Architect taking bids, due January 2d.

Store, Apartments and Garage, 226-228 Adams street, Scranton, Pa. Architect, Jas. A. Barrett, Connell Building, Scranton, Pa. Owners, Jas. A. Barrett and Harold Davis, Connell Building, Scranton, Pa. Brick, steel and terra cotta, 2 stories and basement, 31x51 feet and 40x80 feet, slag roof, concrete and wood floors, electric lighting, metal lath, ventilators, tile work. Plans completed. Architect will take bids in about two weeks.

Church, Taylor avenue and Gibson street, Scranton, Pa., \$60,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owner, Rt. Rev. Bishop M. J. Hoban, Scranton, Pa. Pressed brick veneer, 1 story and basement, 126x60 feet, slate roof, steam heating, electric lighting, metal lath, tile and marble work, concrete and hardwood floors. Plans in progress. Will take bids in about one week.

Parochial School, Avoca, Pa., \$33,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owner, Rev. M. F. Grace, Avoca, Pa. Brick veneer, 2 stories and basement, slag and slate roof, steam heating, electric lighting, metal lath, wood floors. Architect taking bids, due January 5th.

Factory Building, Jackson and N. Penn avenue, Wilkes Barre, Pa. Architect, Henry Maier, Coal Exchange Building, Wilkes Barre, Pa. Owners, Penn Mfg. Co., Wilkes Barre, Pa. Brick (slow burning), 3 stories, 37x135

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feet, slag roof, slow burning composition roof (1) elevator. Plans in progress.

High School, Exeter, Luzerne County, Pa., \$50,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, School District of Exeter, Exeter, Pa. Brick, 2 stories and basement, 90x75 feet, Barrett specification roof, steam heating, electric lighting, metal lath, concrete floors. Revised plans in progress.

School and Club, Seventh street, Scranton, Pa., \$40,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, Ukrainian National Home Inc., Seventh street, Scranton, Pa. Brick, 4 stories, 120x40 feet, slag roof, steam heating, electric lighting, metal lath, concrete floors, tile and marble work. Plans in progress.

Church (interior work), Sayre, Pa., \$20,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, R. C. Church of the Epiphany, care Rev. J. L. Shanley, Sayre, Pa. Carpenter work, plastering, composition floors, metal ceilings, cabinet work, steam heating, plumbing and electric work. Architect taking bids, due February 1, 1917.

Residence, Rutter avenue, Scranton, Pa., \$7,000. Architect, Frank Sahn, Second National Bank Building, Wilkes Barre. Owner, J. L. Sterns, South River street, Wilkes Barre, Pa. Stucco, 2½ stories, 28x40 feet, slate, shingle or tile roof, steam heating, electric lighting, metal lath, hardwood floors. Plans in progress.

Residence, Wyoming avenue, Forty-Fort, Pa., \$7,000. Architect, Frank Sahn, Second National Bank Building, Wilkes Barre, Pa.

Owner, B. M. Hessler, North Main street, Wilkes Barre, Pa. Stucco, 2½ stories, 28x40 feet, slate or shingle roof, steam heating, electric lighting, metal lath, hardwood floors. Plans in progress.

Church, near Scranton, Pa., \$50,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 1 story and basement, 60x150 feet, slate roof, steam heating, electric lighting, metal lath. Plans about completed. Architect will soon be ready for bids.

Garage, Wyoming avenue, Scranton, Pa., \$65,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 2 stories, 150x135 feet, slag roof, steam heating, electric lighting, composition floors, metal lath. Plans about completed. Architects will soon take bids.

Bungalow, near Scranton, Pa., \$2,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, name withheld. Frame, 1½ stories, electric lighting,

steam heating, slag roof. Plans in progress.

Garage, near Scranton, Pa., \$1,500. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 1 story, 15x20 feet, slag roof, electric lighting, steam heating. Plans in progress.

Residence, Oak Lane Park, Pa. Architect, Conrad F. Neff, 824 Heed Building, Philadelphia. Owner's name withheld. Stone, 2½ stories, 27x39 feet, slate roof, electric lighting, oak floors, tile work (heating and metal weather strips reserved). Architect taking revised bids, due January 6th, from John V. Smith & Co., 1714 Sansom street, Philadelphia.

Residences (3) and Garage (1), Merion, Pa. Architect, D. K. Boyd, 139 South Fifteenth street, Philadelphia. Owner, Frank H. Mahan, Ardmore, Pa. Stone, brick, terra cotta and frame, 2½ stories, (2) 25x40 feet, wing 15x20 feet, and (1) 25x50 feet, slate, tile and shingle roofs, hot water heating, electric lighting, hardwood floors. Owner taking sub-bids on one house, and will take sub-bids in a few weeks.

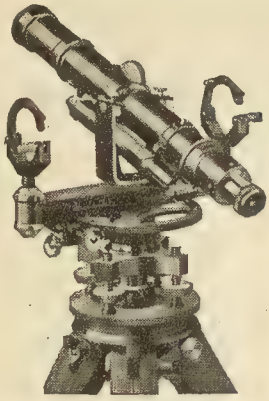
PENNSYLVANIA

Contracts Awarded

Chapter House, Lehigh University, South Bethlehem, Pa., \$35,000. Architect, C. F. Townsend, 129 Church street, New Haven, Conn. Owners, Phi Delta Theta Fraternity, Lehigh University. Stone and hollow tile, 3

stories, 70x32 feet, slate roof, vapor vacuum heating, pine and oak floors, electric lighting, metal lath, waterproofing, weatherstrip, cabinet work, dumbwaiters, tile and marble work. Contract awarded to Pomeroy Const. Co., 1609

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Residence, Elkins Park, Pa., \$15,000. Architects, McIlvaine & Roberts, Land Title Building, Philadelphia. Owners, C. B. Wilmsen, Spring avenue, Oak Lane, Philadelphia. Stone, 2½ stories, 54x47 feet, shingle and slag roof, electric lighting, tile work, hot water heating, oak floors. Contract awarded to Graham-Campion Co., Heed Building.

Church, Sayre, Pa., \$35,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, R. C. Church of the Epiphany, care Rev. J. L. Shanley, rector, Sayre, Pa. Brick, 1 story and basement, slate roof, cut stone, brick work and steel work. Contract awarded to John L. Shea, Sayre, Pa.

Stable (add.), North Main street, Wilkes Barre, Pa. Architect, Frank Sahm, Second National Bank, Wilkes Barre, Pa. Owners, Hessler Laundry Co., North Main street, Wilkes Barre. Brick, 2 stories. Contract awarded to Dickenson & Hirsch, Forty-Fort, Pa.

Residence, South Franklin street, Wilkes Barre, Pa., \$25,000. Architects, Sturdevant

& Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Brick, 2½ stories, 23½x63 feet, slag and slate roof, steam heating, electric lighting, metal lath, tile and marble work, hardwood floors. Contract awarded to John Curtis & Co., Hill and Hickory streets, Wilkes Barre, Pa.

Manufacturing Building, Darby, Pa., \$12,000. Architect, private plans. Owners, International Steel Treating Co., Darby, Pa. Reinforced concrete, brick and steel, 1 story, 40x70 feet, wing 40x30 feet, slag roof, cement floors, rolled steel sash, rolling steel doors (plumbing, heating, electric work, wood platform reserved). Contract awarded to John R. Wiggins Co., Inc., Heed Building.

Residence and Garage, Haverford, Pa. Architect, D. K. Boyd, 139 South Fifteenth street, Philadelphia. Owner, Hugh L. Adams, care of Budd Manufacturing Co., Twenty-fifth and Hunting Park avenue. Brick, 2½ stories, 30x60 feet, wing 15x30 feet, slate roof, hot water heating, hardwood floors, electric lighting. Contract awarded to Frank H. Mahan, Ardmore, Pa.

MARYLAND

Construction News

Church (alt. and add.), Lanvale street and Fremont avenue, Baltimore, Md. Architects, Blanke & Zink, Equitable Building, Baltimore. Owners, First English Lutheran Church, on premises. Stone and brick, steam heating, electric lighting, steel rolling doors. Plans in progress.

Church, York road, near Lyman street, Baltimore, Md., \$15,000. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owners, Gregory Baptist Church, Govans, Md. Brick or stone, 2 stories, steam heating, combination lighting, plastering, painting, plumbing, tile work. Plans in progress.

Residences (10), Bay Shore, Md. Architects, Sparkin & Childs, Law Building, Baltimore, Md. Owners, Park Shore Dev. Co., care of architects. Frame and stucco, 2½ stories, shingle roofs, hot air heating, electric lighting. Builder, J. Charles Kemper, Pimlico road, near Ridgely avenue, will take sub-bids on all lines.

Residences (12), North avenue, west of Hilton street, Baltimore, Md. Architect, E. H. Glidden, Garrett Building, Baltimore, Md. Owner, Mrs. Julia H. Eichelberger, Morris avenue, Walbrook, Md. Brick and stucco, 2½ stories, tile or slag roof, hot water heating, electric lighting, plastering, painting, plumbing, tile work, hardwood floors. Owner taking sub-bids on all lines.

Residences (14), Augusta and Wlad ave-

nues, Baltimore, Md. Architect, Fred E. Beall, 06 St. Paul street, Baltimore, Md. Owner, J. Charles Linthicum, 217 St. Paul street, Baltimore, Md. Brick, 2 stories, 14x50 feet, tin roofs, steam heating, electric lighting. Owner taking sub-bids on all lines.

Residences (72), Melvale avenue and Star lane, Baltimore, Md., \$125,000. Architect, W. B. Gerwig, 1026 Fulton avenue, Baltimore, Md. Owner, George A. Cook, northeast corner Thirty-fifth street and Old York road, Baltimore. Brick, 2 stories, 15x45 feet. Owner taking sub-bids on all lines.

Residences (12), University Place and University Parkway, Baltimore, Md., \$42,000. Architect, Fred E. Beall, 306 St. Paul street, Baltimore, Md. Owner, W. T. Childs, 14-16 West Twentieth street, Baltimore, Md. Brick, 3 stories, 16x50 feet and 22x37 feet, tile roof, hot water heating, electric lighting, tile work, concrete work, modern plumbing. Owner taking sub-bids.

Elevator and alts. to Building, Calvert and German streets, Baltimore, Md. Architect, Theo. W. Pietsch, American Building, Baltimore, Md. Owners, U. S. Fidelity and Guaranty Co., Baltimore, Md. Consists of new elevators, electric wiring extension, plumbing, heating and marble work. Contract awarded to Cogswell-Koether Co., 406 Park avenue, Baltimore.

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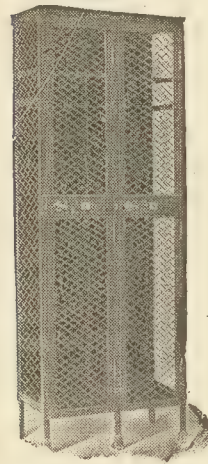
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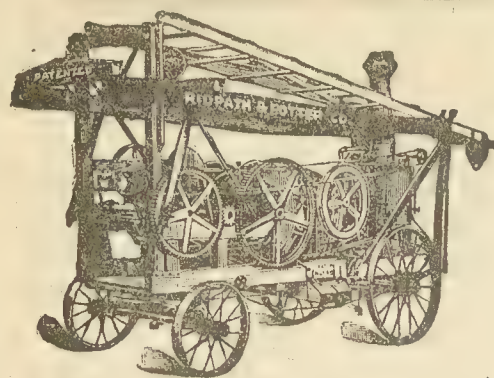
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Miscellaneous Construction News

Garage, Concord avenue and Adams street, Wilmington, Del. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, Ed. Patton and Dr. Patton, care architect. Brick, 1 story and basement, 100 x 100 feet, slag roof, steam heating, electric lighting, concrete floors, (1) elevator. Plans in progress.

Garage, Fourth and Orange streets, Wilmington, Del. Architect, W. E. Hance, 254 W. Twenty-third street, Wilmington, Del. Owner, Morris Charkin, on premises. Brick, 2 stories and basement, 50x70 feet, slag roof, steam heating, electric lighting, reinforced concrete floors, (1) elevator. Plans in progress.

Residence (alt.), Penn and Boone streets, Wilmington, Del. Architect, Edw. Canby May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick, 3 stories, slate roof, hot air heating, electric lighting, wood floors. Plans in progress. Architect will take bids in about one month.

Apartments (alt.), French street, Wilmington, Del., \$10,000. Architect, Wallace E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, 1000 French street, Wilmington, Del. Brick, reinforced concrete porches, 3 stories, slag roof, steam heating, electric lighting, metal lath, cabinet work, dumbwaiters. Architect will take bids on heating, plumbing, plastering, electric work and tin roofing.

Signal Cabins (3), Greenwood, Harrington and Broad Creek, Del., \$4,000. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Hollow tile and plaster, 3 stories, 15x16 feet, tile roof, hot water heating, cement floors, metal lath (plumbing, electric work and cement work reserved). Owners, care Del. Div., Wilmington, Del., taking bids, due January 6th. In addition in those previously reported, Armstrong & Latta, Land Title Building, and John Goll Co., 1539 Filbert street, are figuring.

Factory (add.), Cleveland, Ohio. Engineer, Ernest McGeorge, Cleveland, Ohio. Owners, Briggs Mfg. Co., Cleveland, Ohio. Brick and concrete, 4 additional stories, 98x204 feet, composition roof, maple, cement and asphalt floors, metal lath, rolled steel sash, fire doors, safety treads (heating, electric work, plumbing and elevators reserved). Engineer taking bids, due January 2d. James H. Wells, Heed Building, is figuring.

Factory, East Palestine, Ohio. Architects, W. C. Owen & Co., 449 Leader-News Building, Cleveland, Ohio. Owners, East Palestine Rubber Co., East Palestine, Ohio. Brick and reinforced concrete, 1 story, 54x406 feet, Careys roof, cement, plank and maple floors,

waterproofing (metal sash, plumbing, heating, electric work and machinery reserved). Architects taking bids, due January 2d. James H. Wells, Heed Building, Philadelphia, is figuring.

Conduit (underground), Upper Montclair, N. J. Architect, Geo. S. Drew, State Capitol Building, Trenton, N. J. Owners, State of New Jersey, State Normal School, Jos. S. Frelinghuysen, president, Montclair, N. J. High pressure steam and return piping, terra cotta and iron, vitrified tile work, cement work. Owners, care Dept. of Public Instruction, State House, Trenton, taking bids, due January 6, 1917, at noon. Plans and specifications may be seen at office of Charities and Corrections, State House, Trenton, N. J.

Club House (alt. and add.), 635-37 Market street, Camden, N. J. Architects, Moffett & Stewart, 30 North Third street, \$15,000. Owners, Camden Lodge, No. 111, L. O. O. M., on premises. Brick and concrete, 1 and 3 stories, tile and slag roof, steam heating, electric lighting, metal lath, dampproofing, fire doors, ventilators, safety treads, tile and marble work, North Carolina pine floors, hollow tile, metal lockers, cabinet work, dumb waiters (heating and bowling alleys reserved). Architects have received bids.

Automat Cafes (2), Broadway and John street and Forty-second and Fifth avenue, New York City. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Horn & Hardart Baking Co., 818 Chestnut street, Philadelphia. Basement (interior alterations), steam heating, electric lighting, metal lath, tile and marble work, cabinet work, dumb waiters. Contract awarded to Harry R. Rust, 724 Ludlow street, Philadelphia.

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Permits for New Buildings

Public School, Sartain and Wood streets, \$140,000. Board of Education (O), Nineteenth above Chestnut street. Cramp & Co. (C), Denekla Building, Philadelphia. Brick, 3 stories, 114x117 feet, slag roof, hot water heating.

Boiler house, C street above Clearfield st., \$5,000. Delph Spinning Co. (O), on premises. Charles J. Platt (C), 1015 Arch street. Brick, 1 story, 36x44 feet, slag roof.

Manufacturing building, Ridge avenue north of Calumet street, \$6,000. Powers, Weightman, Rosengarten Co. (O), Ninth and Parrish streets. Monaghan & Losse (C), 3016 Chestnut street. Brick, 1 story, 23x108 feet, slag roof.

Dye house, Twenty-fifth and Dickinson sts., \$70,011. S. B. & B. W. Fleisher (O), Eighth and Chestnut streets. Wm. Steele & Sons Co. (C), 1600 Arch street. Brick, 2 stories, 140x109 feet, asbestos roof.

Dwellings (46), north side of Albanus, east of Front street, \$110,000. Roth & Schwershardt (O and C), 4830 Rising Sun avenue. Brick, 2 stories, 15x27 feet, slag roof, hot water heating.

Dwellings (14), east side of Smedley street and Fishers lane, \$42,000. Harry C. Weller (O and C), Yord road and Ruscomb street. Brick, 2 stories, 16x42 feet, slag roof, hot water heating.

Dwellings (5), Cottage street, Philadelphia, \$8,000. Ella Deitrich (O), 3016 Comly street, Philadelphia. Lewis Deitrich (C), 3016 Comly street, Philadelphia. Brick, 2 stories, 16x35 feet, slag roof, hot air heating.

Garage, 5121-23-25 Warrington avenue, \$4,600. Harry Woolener (O), 1009 South Forty-ninth street, Philadelphia. Jas. A. Blum (C), Philadelphia, Pa. Brick, 1 story, 60x95 feet, slag roof.

Garage, 3010-12 Tulip street, \$450. Martin Newell (O and C), 3032 Aramingo avenue. Brick, 1 story, 26x17 feet, slag roof.

Alterations and Additions

Shelter shed, Thirty-sixth and Gray's Ferry avenue, \$7,900. Barrett Co. (O), on premises. A. L. Carhart (C), 1328 Chestnut street. Alterations.

Garage, 668-670 North Broad street, \$4,500. Samuel Gorson (O), 238 North Broad street. J. C. Haldeman (C), Pleasant avenue, Chestnut Hill, Philadelphia. Interior alterations.

Factory, 1900 Callowhill street, \$1,000. Robert Taylor (O), on premises. Mitchell Bros. (C), 2125 Race street. Repair fire damage.

Dwelling, 3215 Diamond street, \$1,400. Louis Marcus (O), on premises. Jake Greenspun (C), 551 North Sixth street. Brick, 2 story addition, 10x3 feet, steam heating, tin roof.

Fire station, 752 South Sixteenth street, \$3,400. City of Philadelphia (O), City Hall,

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Philadelphia. E. C. Durell (C), 1713 North Twenty-fourth street, Philadelphia. Repairs. Fire station, 314 Florist street, Philadelphia, \$2,700. City of Philadelphia (O), City Hall, Philadelphia. E. C. Durell (C), 1713 North Twenty-fourth street, Philadelphia.

Building, Independence Hall, between Fifth and Sixth street, on Chestnut street, \$800. City of Philadelphia (O), City Hall, Philadelphia. E. C. Durell (C), 1713 North Twenty-fourth street. New roof.

Foundry, south side of Vandyke street, east of Paul street, \$2,250. Est. of H. Faersteiser (O), 1105 Franklin Bank Building. E. F. Bender (C), 6014 Torresdale avenue. Repair fire damage.

Store and dwelling, 13 South Sixtieth street, \$1,000. Frank Ross (O), on premises. A. Raymond Raff Const. Co. (C), 1635 Thompson street. Brick, 1 story addition, 40x27 feet, slag roof.

Store and dwelling, 2451 South Twentieth street, \$450. W. A. Dreibelhis (O), on premises. Robert Baile Co. (C), 813 South Nineteenth street. Hot water heating system.

Stores, 509-11 Market street, \$1,500. Miles Estate (O), 1201 Chestnut street. Thayer & Co. (C), 1233 Ludlow street. Flush bulks, repairs.

Garage, 2043 Rittenhouse street, \$1,800. Joseph Bunting (O), 560 Drexel Building. Jos. F. Meyer (C), 1237-39 Ridge avenue. Hot water heating system, repairs.

Store and dwelling, 5650 Catherine street, \$400. W. Turner (O and C), 2134 Mt. Vernon street. Flush bulks, repairs.

Department store, north side of Market, west of Eleventh street, \$4,200. Earle Stores (O), Tenth to Eleventh streets, on Market street. O'Meara Const. Co. (C), 253 Quince street. Steel and concrete bridge between fourth and fifth floors.

Dwelling, 5002 Cedar avenue, \$685. W. H. Quick & Bro. (O), 8 South Fortieth street. Frederick Sabin Co. (C), 237 Bread street. Hot water heating system.

Market house, 700-02-04 Morris street, \$1,000. J. Engel (O and C), 4146 Leidy ave. Alterations.

Kitchen, 4017 and 4019 North Eighth street, \$300. August Loebel (O), 4017 North Eighth street, Philadelphia. H. F. Benner (C), 3522 North Eighth street, Philadelphia. Rear shed, 12x7 feet, tin roof.

Dwelling, 4600 Camac street, Philadelphia, \$400. J. Ray Stites (O), on premises. Harold Regby (C), 1345 West Somerset street. Repairs.

Store and dwelling, Eighty-fourth and Eastwick avenue, \$325. Abe Polis (O), on premises. Morris Fishhern (C), 8344 Eastwick avenue. Rear shed, 7x8 feet, tin roof.

Manufacturing building, 211-13 Chancellor street, \$750. Penna. Co. for Ins. on Lives and Granting Annunities (O), 517 Chestnut street. John Duncan (C), 920 Walnut street. Repair fire damage.

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(Continued from page 862.)

barges and boats, and labor troubles. This condition aided in maintaining the firm price.

On common red brick current prices for carload or cargo lots are as follows: Common in New York sells at \$8.00; Chicago, at \$6.25; St. Louis, \$6.00, and San Francisco, \$10.00. The selling price a year ago in New York was in the neighborhood of \$6.00. The better grades of face brick bring from \$18.50 up.

Architectural terra cotta is generally quoted from specifications and has advanced in sympathy with other types of exterior building materials.

Ornamental work in iron, stone, etc., has increased in cost because of rising costs in labor and manufacture. Prices have been advanced, but are holding steady.

The lumber market has been in such an unsettled condition, representatives in New York in most instances refuse to furnish prices unless specifications are submitted. The demand has been exceptional despite the conditions.

For hollow tile the prices have remained rather stationary, although in the past few months some advances were absolutely necessary, due to labor conditions. At present in New York 4x12x12-inch sells at \$0.054; Chicago, at \$0.064, and San Francisco, \$0.08. For fireproof partition blocks are quoted as follows: 2x12x12-inch, at \$0.046 in New York, \$0.024 in St. Louis; Chicago, \$0.041, and San Francisco, \$0.055. For larger sizes about the usual variations would occur all along the line.

Clay drain tile per 1,000 feet sells as follows: In New York 3-inch sells at \$22.50, 4-inch at \$32.50, 5-inch at \$47.50, 6-inch at \$57.50, 7-inch at \$97.50. In Chicago 3-inch sells at \$15.00, 4-inch at \$18.00, 5-inch at \$23.00, etc.

From the foregoing it is evident that the prices on building materials to-day are as high as they ever have been. The steel market has never been more active. Some subsidiary companies of the corporation report that if no orders were forthcoming they would be kept busy six months into the year 1917. The one serious situation that confronts manufacturers and supply men is the shortage of labor. Skilled and common labor is almost unobtainable, both classes being well occupied. Immigrants arriving in this country are of a poorer grade than formerly, the better men being forced to remain on the other side for possible use in the army. Wages have advanced in all cases and even at the advance it is hard to hold good men for any length of time. Strikes have been prevalent in all lines of work, the result of which has been that employers have been generally forced to increase their labor costs.—Courtesy of "The American Architect."

TRADE NOTES.

The Master Builders' Association of New Jersey held its December meeting in Newark. The members heard encouraging reports from various sections indicating that building activity would continue brisk, at least until the customary spring rush starts. The compensation laws and other subjects were discussed, and arrangements were made for the next State convention, to be held in January. New by-laws providing for an annual convention and election of officers in the second week of March each year were adopted.

Cass Gilbert, now at 11 East Twenty-fourth street, New York City, has leased the top floor of the new building at the southwest corner of Madison avenue and Thirty-eighth street, just completed by August Heckscher.

Louis Sonntag, chief draftsman of the Board of Education, Newark, N. J., has been appointed temporary architect for the department, to fill the position vacated by the death of Ernest F. Guilbert, School Architect.

Joseph M. Tilden delivered a lecture on December 22 at the Tottenville, S. I., School, on the "History of Architecture As Seen in New York City."

STRUCTURAL SERVICE A. I. OF A.

The Structural Service Department of the American Institute of Architects, which will make its debut in the January issue of the Journal, promises to be of great benefit to all interested in building. The work will not be confined to the staff workers, but will be the result of co-operation from individuals, governmental departments, societies, associations and other potent allied agencies.

This great fund of information will give a complete resume of all governmental, professional, technical, commercial and industrial activities concerning the art and science of building. In doing this an attempt has been made to separate the construction of a composite building into twelve stages of progress—one to be issued each month during the year in the Journal.

The Structural Service Department is offered as a solution or an outlet, through the Journal of American Institute of Architects, as the one logical medium for a centralized source of information.

ENCOURAGING ART IN PITTSBURGH.

Pittsburgh has organized the "One Hundred Friends of Pittsburgh Art," the purpose being to encourage local artists and stimulate knowledge of art in the public schools. Members pledge themselves to give \$10 a year for five years. The idea is to use this money to purchase pictures from local exhibitions and then present them to the various schools.

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TO REPAIR INDEPENDENCE HALL

Contracts Awarded for Minor Repairs Preliminary to the Larger Work of Restoration—Prototypes of Lamps in Square Probably Invented by Benjamin Franklin.

Preliminary to the extensive alterations and improvements to be made in Independence Square and the restoration of Independence Hall, Director Datesman has awarded some minor repair contracts. New roofs and repairs are to be made to the sections over the wings and arcade, at a cost of \$5,000. The contract was awarded to E. Clifford Durrell. A new floor covering is to be placed in Independence Hall, the contract for which was awarded to Heaton & Hood, for \$896. The abandoned lighting scheme for the Square has been revived. Five years ago Councils appropriated \$60,000 for the purpose of erecting a memorial lamp for each signer of the Declaration of Independence, but the money was allowed to merge and the lighting plan abandoned.

Recently Councils authorized the expenditure of \$2,000 for the preparations of plans and specifications by Philadelphia Chapter of the American Institute of Architects, whose members have agreed to give their services free to plan the complete restoration of Independence Hall, Old City Hall and the other portions of the buildings similar in manner to the rehabilitation of Old Congress Hall, which was completed two years ago.

Patterned after an old lantern, recovered from a dump pile, the new incandescent gas lamps surrounding Independence Hall constitute another step in the restoration on strictly historic lines of the birthplace of the nation. There is to be no delay in carrying forward the work of restoration to completion.

The Philadelphia Chapter, American Institute of Architects, is making researches and preparing plans for the restoration of the old City Hall, at Fifth and Chestnut streets. This work will be carried out as soon as the plans are approved and will complete the restoration of the entire group of buildings.

John W. Patten, of this city, who found the old lamp and offered it to the Historical Society as a relic, in a letter to the secretary, John W. Jordan, explained how he had accidentally picked it up. He said:

"Would you care to have a lantern which once hung in front of the State House, there being one between each window? This is, I believe, the only one now preserved, as I picked it out of a pile of refuse to be carted away to a dump pile."

The form of the lantern, Mr. Sellers said, was undoubtedly due to Benjamin Franklin. He said he had found in the writings of Franklin a description of the lamps first used in Philadelphia for municipal lighting. Franklin wrote that they were supplied from London and consisted of a cylinder of glass with

a metal hood, but without provision for ventilation from below.

The globes soon darkened, however, and made the lamps ineffective and it was necessary to clean them daily. With a view to improving the Philadelphia lamps Franklin suggested that in place of these globes they be "composed of four flat panes, with a long funnel above to draw up the smoke and crevices admitting air below to facilitate the ascent of the smoke." "By this means," Franklin said, "they were kept clean and did not grow dark in a few hours as the London lamps do, but continue bright until morning, and an accidental stroke would generally break but a single pane, easily repaired."

In approving the adoption by the city of the Franklin style of lamp, Mr. Sellers said that besides being appropriate to the surroundings in Independence Square this original form of post and lantern have an interesting historical significance.

ARCHITECTURAL LEAGUE COMPETITIONS.

The Architectural League of New York announces the competitions to be held under its auspices during the season of 1916 and 1917 for the Henry O. Avery prize for sculpture, and a special prize of \$300 for the best design submitted by an architect, sculptor and mural painter in collaboration. The conditions governing the competition as announced by the committee, A. Stirling Calder, chairman, and W. Symmes Richardson and Jules Guerin, are as follows: The subject will be a triumphal arch commemorating the Renaissance of Peace, to be located in a public square of a large city formed at the intersection of wide avenues.

Competitors to be eligible for the award must submit a model in color to be rendered at a scale of three-eighths of an inch to the foot, to represent the combined work of the architect, sculptor and painter, and also a rendered plan at a scale of one-sixteenth of an inch to the foot, showing the arch, the square in which it is to be placed, and the approaching avenues. The judgment of the Committee of Awards will be based on the effect of the design as a whole, and the degree of successful collaboration of the competing groups.

The Avery prize will be awarded on the sculptural element in this program, and the awarding of the collaborative prize will render the work of the collaborating sculptor ineligible therefor. The competition will be governed by the general rules governing competitions, and the award will be made by the Committee on Competitions and Awards, who will constitute the jury.

TRAUBLES OF BRITISH BUILDERS.

At the half-yearly meeting of the National Federation of Building Trades Employers of Great Britain and Ireland, it was unanimously resolved that the "Board of Trade be petitioned to seriously consider the inflated prices of all building materials, with hopes that his Majesty's government will take steps to remedy this hardship."

Considerable time was devoted at this meeting to the discussion of the condition of the apprentices in the building trade whose time and service had been disturbed by the war. It was pointed out that difficulty would be encountered at the end of the war when young men came back who were too old to be apprentices and were not sufficiently skilled to be journeymen. It was suggested that the trade unions should be consulted as to a readjustment of their rules regarding the age of apprentices, so that men returning from the front who might be willing to become apprentices might not be prevented from so doing on account of their age.

BUILDING RECORD.

The preliminary returns of November building permits and expenditures given in Bradstreet's Journal (118 cities reporting), showing, as they did, a decrease in permits but a small gain in value of building as compared with a year ago, were quite close to the real facts, as shown by later, more detailed and numerous returns. With 152 cities of the United States reporting, the total number of permits is found to be 21,410, and the expenditures aggregate \$70,678,968, a decrease in permits from November a year ago of 6.8 per cent., but a gain in expenditure of 3.3 per cent.

Of the 152 cities reporting, eighty-seven, or about 57 per cent., show gains over a year ago, but that group, the southwestern, southern and far-western groups all show gains in expenditure. Most of the larger cities show gains, but New York, Chicago, Minneapolis, Baltimore and Boston show decreases, and the large volume of the normal building at those cities affects percentage of expenditure as a whole.

For the eleven months ending with November expenditures aggregated \$921,499,099, a gain of 20.3 per cent. over 1915, and the prospects are that the year's total building at 152 cities will be little below \$1,000,000,000, an increase of one-fifth over the preceding year, and, therefore, the premier period for building expenditures. It needs to be remembered, however, that permits themselves will probably show only a small increase for the year, not much in excess of 2 per cent., in fact, and this with the known facts as to increased cost of wages and material make it look as if the bulk of the gains shown in expenditures this year over some others will be found to be due to higher costs rather than really greater building activity.

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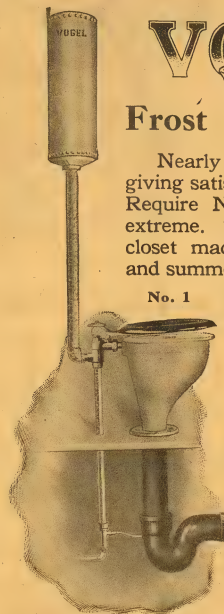
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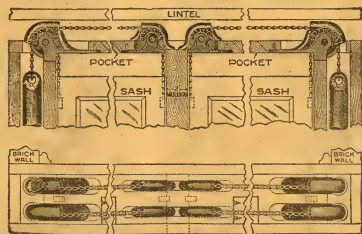
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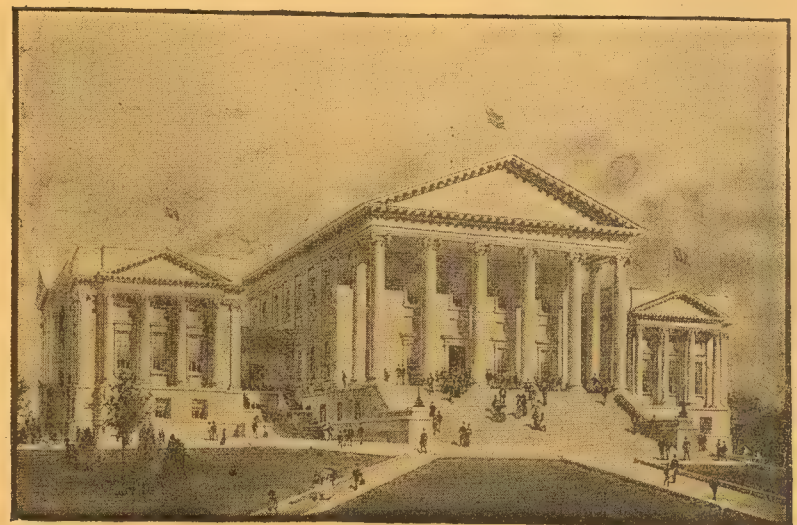
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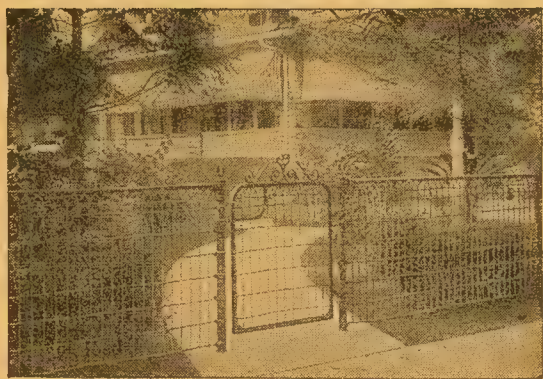
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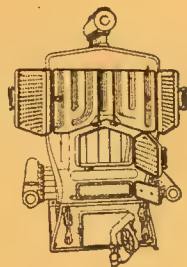
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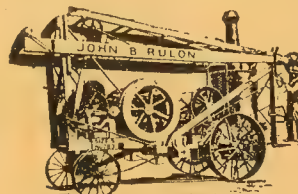
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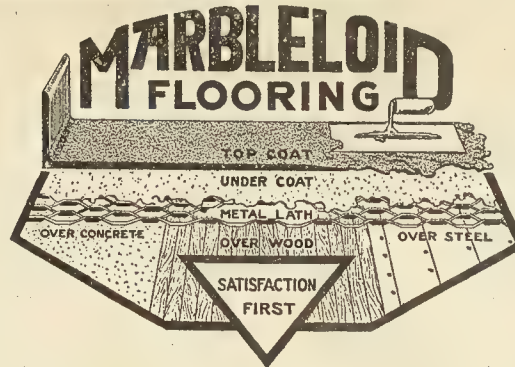


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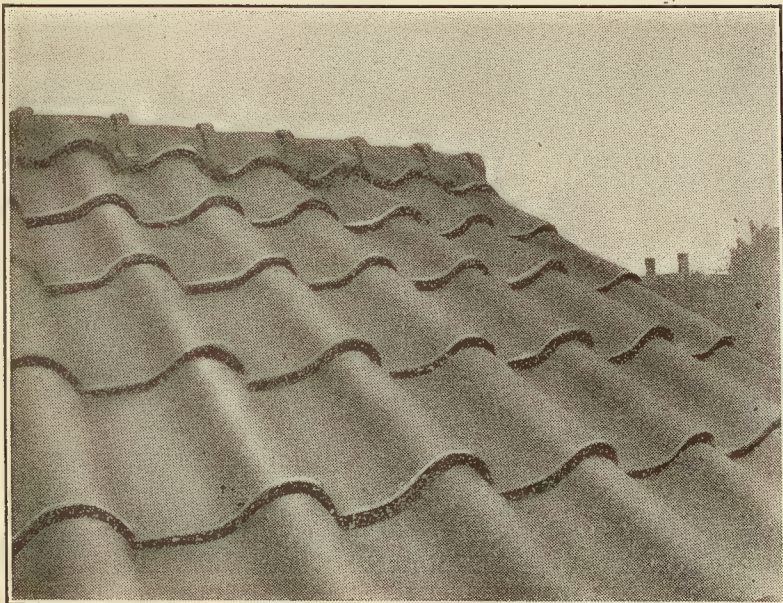
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BUILDERS' GUIDE

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VOLUME XXXII
Number 2

PHILADELPHIA
January 10, 1917



As The Editor Sees It



VERIFYING a prediction made by THE GUIDE, early in the present year, 1916 goes down into history as the greatest year for building activity that Philadelphia has ever known. According to official figures, compiled by William Gamble, statistician to the Philadelphia Bureau of Inspection, the estimated cost of all buildings for which permits were issued was \$49,896,570. This expenditure covers 15,613 separate operations for which were issued 8838 permits. In 1915 the total was \$39,441,125 and the number of operations 17,723. The nearest approach to 1916, which breaks all known records, was in 1909, when a total expenditure was recorded of \$42,881,370, representing the cost of 17,294 new structures.

In commenting on the summary of the year, William S. Gamble, statistician of the Bureau of Building Inspection, declared that the year just closing was remarkable in many ways from a building viewpoint.

Builders were confronted with the high cost of materials and the scarcity of labor," he said, "Despite this handicap, they went ahead with their dwelling operations or other big projects. The year was the banner year for builders and architects, but from present indications the coming year will be unusually active.

"A feature of the year's building operations was the record number of two-story dwellings, 7204. two-story houses being erected at a cost of \$17,766,375. But by far the greatest activity of the year was reflected in the unusually large number of manufacturing buildings erected. To meet the unprecedented influx of orders from all over the world, industrial concerns built new and large quarters, enlarged their buildings, remodeled existing plants and purchased sites for new factories. It is estimated

that more than \$25,000,000 was put into factory construction of all kinds.

* * *

THE estimated cost of all buildings for which permits were issued in the month of December was \$5,460,865. In comparison with last month this is an increase of \$1,008,940.

The following table shows the number of permits issued, the character and total cost of all work during the year.

Operations	Operations	Estimated Cost
Dwellings, 1 story ..	4	\$10,000
Dwellings, 2 story ..	7,204	17,766,375
Dwellings, 3 story ..	516	2,999,315
Dwellings, 4 story ..	2	19,200
Dwellings, frame	28	76,525
Tenement houses ...	4	1,290,000
Rooming houses ...	4	29,000
Stables	36	97,335
Manufactories	102	5,515,590
Workshops	88	349,315
Garages	878	1,307,340
Office buildings	36	1,867,690
Stores	72	1,569,365
Warehouses	54	2,881,215
Engine and boiler houses	16	224,150
Churches	19	650,270
Schools	21	1,443,125
Halls	3	73,300
Municipal buildings.	8	224,300
Hotels	2	1,360,000
Hospitals	3	868,000
Convent	1	65,000
Powerhouses	5	126,500
Clubhouses	2	6,000
Bank buildings	2	300,000
Parish buildings	2	51,000
Library	1	45,000
Place of amusement	1	82,000
Miscellaneous buildings	202	252,965
Additions	1,546	5,550,290
Alterations and repairs	2,846	2,218,160
Miscellaneous work.	1,443	332,450

Heaters	266	166,315
Fire-escape	51	30,655
Signs	145	47,925

Totals 15,613 \$49,896,570

According to the etimated cost of the work, the year 1916 was the largest in the history of the Bureau of Building Inspection, which means the greatest building year that Philadelphia has ever seen.

* * *

ALITTLE talk on "Building Estimates," in the December number of *Architecture and Building*, is marked by some carefully reasoned if homely common sense.

"Placing a building contract with the lowest bidder may seem to many a good stroke of business and a money saver," says the author, Edward J. Kuegeman.

"Many home builders can testify that on the contrary it has been a very costly experience. Lot owners deciding to build should first inform themselves about the building laws and the obligations they assume when letting a building contract to an irresponsible person. They might learn that if labor remains unpaid, or building material used in the construction of house is not paid for, labor and material liens will compel them to pay or their lot and the house will be sold to satisfy the liens.

"It makes no difference if the builder has already received the full sum that he contracted to build the house for—the owner must pay all unpaid labor and material bills. Common sense and good business judgment should prove to every one that when an irresponsible builder or a carpenter who usually works for wages offers to build a \$5,000 to \$6,000 house for \$1,500 less than other builders of good standing there is something wrong.

"The irresponsible builder has nothing to lose and is always assured of good

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wages and a good profit. He can name almost any price to secure the job and put it so low that no responsible concern can compete. All he wants is the contract. He can soon enough get cash advanced to take care of his profit and wages.

If, before the house is completed, the lot owner finds that he has already paid out as much as the finished house was to cost him, the shoestring contractor explains that he made a mistake in estimating—forgot to figure the doors or the windows or an entire floor, etc.—that no one could build a house for that price and that he will do his best to complete it as cheaply as possible. If the owner turns it over to some one else it costs him still more money.

"The lot owner has absolutely no recourse and protection, for the builder has no financial responsibility and is practically judgment proof. Consequently he is compelled to put up the necessary additional money to complete the job and the \$3,500 house costs \$5,000, and is perhaps a poor job at that.

"The only way an owner can protect himself against these irresponsible contractors who explain their ability to figure so low a price because of their having no overhead expenses, etc., is by demanding a builder's bond. This might eliminate this class of bidder, but if the bond were furnished, it would protect the owner against liens and would guarantee him the fulfillment of the contract as per specifications for the stipulated price.

"It is, therefore, of the utmost importance to every one who desires to build that he demand a building bond from any contractor of whose financial standing he is not absolutely sure.

"It is not so much a question—Who will make the lowest bid? as "What is the real value the finished house will represent? What is the workmanship and material that is going into it? Will the completed house be delivered for the contract price?"

* * *

IT is hard to believe that any reasoning person, outside of the rural sections, still needs to be convinced of the wisdom of having a new house designed by an architect instead of, following an ancient custom, built by a "practical" builder. But if any such obstinate person does exist one of the many arguments for the employment of an architect is to be found in the added sale value this fact gives a house when it is up for disposal. Real estate men say it is common for them to get, for country houses designed by architects of repute, anywhere from \$2,000 to \$5,000 more than homes, of the same size, lacking this qualification, are able to command. It

isn't altogether a question of better planning that gives the architect-designed house this extra value. Nor is it infallibly a question of better design. It is more frequently that combination of the two which spells "taste." If you doubt this at all compare the finest "practical builder" designed country house in your locality with the poorest architect-designed house in the same vicinity. One as notably lacks as the other possesses this elusive quality of good taste. The architect learns to key his proportions to the dominant motif, musically speaking. Everything is in harmony with everything else. The decorative scheme, however simple and unostentatious, is endowed with grace, relevancy and a certain compatability. It escapes the tawdriness, the bourgeois quality, of the house planned by the man who has not had this advantage of artistic training. And as most buyers are people of a certain average of discernment and are instinctively attracted to the house which shows inward and outward evidences of correct and intelligent planning the home designed by the architect sells at a premium over that which is carpenter-built.

* * *

ALTHOUGH 1916 takes its place in the annals of building as a year of unparalleled activity, there are pessimistic persons, here and there, who affect to see in the rising cost of labor and materials a disturbing factor in any flight of prophecy which aims to forecast the future. Such a croaker is a writer who signs himself "Builder" in the *New York Real Estate Record*. Here is his plaint:

"That the outlook for new fireproof construction in 1917 is very dubious is evinced by the dearth of plans filed for such work. The deterrent factor is the enormous increase in the price of building material.

"As an instance of this increase: A figure of \$6,500 for the steel and fireproofing in a building 25 x 75, submitted in November, 1915, is resubmitted today at \$13,000. This difference alone would be a handsome profit on the entire transaction (land and building).

"Another case of where the excessive increase in materials has put the kibosh on a proposed operation is illustrated in the increase of \$57,000 in 1916, over the \$99,000 cost of a duplicate building erected in 1913, when prices were normal.

"Unless prices take a sudden drop in the immediate future, the volume of building in 1917 promises to be exceedingly small."

* * *

THERE is an old fable about a good housewife who found herself the owner of a goose which laid golden eggs. But as the goose did not lay them

fast enough or numerous enough to please the exacting dame she hit upon the expedient of killing him and extracting at one swoop his entire stock of glittering goose-fruit. The outcome, as you may guess, was that she found herself minus both goose and eggs. Can "Builder" be right in his reasoning? Are building costs to advance to a point threatening the supply of golden eggs?

* * *

MANHATTAN is busying itself with another more or less acrid discussion of the question of roof signs. It seems that an effort is being made by certain interests to secure the amendment of the existing ordinances dealing with this subject.

In the opinion of the Real Estate Board of New York these amendments are not in the best interests of the city and the Board's Committee on City Ordinances has been instructed to oppose the ordinance at the hearing. The changes would, in brief, make it possible for roof signs on fireproof buildings to be constructed to *practically any height that the sign owner might elect*.

More than a year ago the ordinance relating to roof signs and ground signs was thoroughly amended. The amendments at first proposed laid great emphasis on what were considered by its drafters to be the aesthetic requirements of the situation. The Board at that time was not in favor of the first proposed amendments because in many particulars they entirely disregarded the plain rights of property owners.

The ordinance in its present form represents the result of numerous conferences between public officials, the Real Estate Board, civic and other organizations, and was passed after a very thorough consideration of all the circumstances surrounding the erection and maintenance of signs.

This ordinance has worked well for more than a year. Public sentiment is, if anything, against less rigid provisions. The Real Estate Board believes that the ordinance should be retained in its present form and that the proposed changes are unwarranted and against public policy. This same attitude was taken at a recent conference at which representatives of the Citizen's Union, the City Club of New York, the Fifth Avenue Association and the Real Estate Board of New York were present.

* * *

THAT real estate men are at last becoming alive to the fact that it pays to keep idle property attractive, if the object is to sell or rent, is instanced by a set of "New Year Resolutions" printed in *Realty*, the progressive Newark (N. J.) real estate monthly.

"RESOLVED:" runs this set of reso-

lutions, "That we will keep the weeds, old cans, cast-off paper, odd pieces of lumber, and scrapheap off all our real estate wheresoever situated, to the end that a neighbor's right to live decently may continue unto him without unlawful abridgment and inhuman disregard.

"That we will plant trees upon our idle property and keep the grass fairly short, or cultivate it to some useful purpose in floral or vegetable husbandry.

"That we will at last discover that a neat, freshly painted, artistic sign upon vacant property makes for beauty in a neighborhood and enhances the impression of value which we desire our property to convey.

"That we will clean up and paint the house and business buildings of our whole community because it increases values, insures sanitation, denotes civilized progress and keeps the bugs off our assets.

"That we will carry on a crusade against all undesirable property owners who show signs of senile irresponsibility by neglecting their property within and without. To hog the income from property at the expense of its upkeep, cleanliness and appearance pretty nearly discloses such an owner.

"That we will take a real, active and, if necessary, a militant interest in our city, its management, taxation, civic and aesthetic life. May our properties go to the demnition bow-wows if we fail in this patriotic resolve!

"That we will remove every pill and other unsightly advertising sign from the farm buildings of properties on our list, as a condition precedent of their sale to our clients. Also that we will propagate the belief that a farm made ugly by such signs becomes unsalable and that the farmer who commits this offense thereby advertises his own thriftlessness.

"That we will leave more white space in and around our advertisements, for it often hath even a louder voice than type—in a wilderness of printer's ink.

"That we will adopt the great principle of co-operation in our business and not set trap-guns for each other.

"That we will undertake in a substantial manner to remedy those ancient evils in our business which have made personal property salable anywhere in a moment and real estate unsalable nearly everywhere without great pains and long labor.

"That we will so organize nationally, and conduct our business individually, as to invest a new stability in real estate of every description, and win for it the financial market which has for many years been devoted to gambling in stocks and bonds."

* * *

AND by the way we wish that the builders of Philadelphia, and elsewhere, efficiently organized, could adopt just five of the planks in this platform of policy and live up to them. What a great thing it would be for the trade!

J. S. Donal, representing the city of Philadelphia.

* * *

Philadelphia, the birthplace of many co-operative advertising campaigns in the newspapers, saw another newcomer recently—an educational campaign on life insurance conducted by the Philadelphia Association of Life Underwriters. Smaller cities have been conducting campaigns of this sort for several years, but Philadelphia is probably the first city of the first-class to undertake a campaign of this sort. The advertising is being written and placed by Theodore E. Ash. The Philadelphia campaign is local in scope and is intended not only to sell life insurance, but to establish confidence in life insurance men and encourage all of its life underwriters in Philadelphia to join the campaign. The copy is unique in that it strips life insurance of its technicality and depends on human interest to convince the reader.

* * *

One of the greatest increases in realty values ever made in the central section of Philadelphia and among the largest for any other section of the city was made for 1917. Reflecting the city's growth and the remarkable number of central improvements, more than \$8,000,000 was added to central realty. This increase was made notwithstanding a deduction of \$1,000,000 for properties acquired by the city for the Parkway. Assessments in some cases, as for example the Larkin Building, Twenty-second

EDITORIAL NOTES

As this issue of THE GUIDE goes on the press a testimonial dinner is in progress at the Hotel Rittenhouse to George Watson of the Philadelphia Master Builders' Exchange. The dinner is given by the Campaign Committee of the Exchange, which handled the very successful membership drive in that organization earlier in the year, and is meant to emphasize the Committee's recognition of the valued services rendered therein by Mr. Watson, who was one of the most tireless workers in the movement to enlarge the membership roll of the Exchange. The committee which arranged the dinner consisted of Jacob L. Tyson, W. Nelson Mayhew, J. T. Talley, O. W. Ketcham, F. M. Harris, Jr., Harold Smith, E. E. Hollenback, I. Roy Griffith, C. F. Shellenberger and Benjamin K. Nusbaum, Chairman.

* * *

At a meeting of the Special Port

Committee held in the Foreign Trade Bureau of the Chamber of Commerce on December 18th, representatives of the Railroads, the City of Philadelphia and the Philadelphia and South American Steamship Company, arranged to begin at once the work of canvassing all manufacturers of Philadelphia and vicinity for the purpose of ascertaining what interest they had in export business and to gather all possible statistics, with the view of bringing new steamship lines to the port of Philadelphia.

The gentlemen present were: Mr. H. K. Mulford, Chairman; A. J. Ball, Foreign Trade Agent for the Pennsylvania Railroad; Mr. R. S. Merkel, who will represent the Pennsylvania Railroad in this solicitation; Mr. J. W. Klink of the Reading Railroad Company; Mr. G. Alan Sheain of the Baltimore and Ohio Railroad; Mr. J. D. Bennett, Philadelphia and South American Steamship Corporation and Mr.

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Irving Dillon.....Editor

ond and Arch Streets, were boosted 100 per cent. But the advance in values was mostly distributed over large buildings which have just been begun or completed.

* * *

Among these is the apartment house at Fifteenth and Locust Streets, which is assessed at \$700,000; the loft building at Ninth and Sansom Streets, at \$600,000; the office buildings at Sixteenth and Sansom Streets and at Sixteenth and Walnut Streets, assessed as unfinished structures at \$500,000 each; the new Franklin National Bank Building on Chestnut Street west of Board, at \$1,500,000; the large warehouse and distributing station being built by John Wanamaker at Twenty-fourth and Walnut Streets, assessed as unfinished at \$600,000; advances in the taxable valuation of the unfinished apartment house at Nineteenth and Walnut Streets, the Logan Trust Company Building on Chestnut Street west of Broad, the new Widener Building at Chestnut and Juniper Streets, the Hale Building at Chestnut and Juniper Streets, which was remodeled.

* * *

The new building of Felton, Sibley & Company, on their old site at 136-140 North Fourth Street, corner of Cherry, is now completed.

The building is a Colonial fire-proof, six-story structure and contains every up-to-the-minute device for manufacturing and shipping.

The first floor is devoted to the packing and shipping rooms. The general offices and private offices are on the second floor. The grinding mills are also on this floor.

A new electric power plant supplies current for the entire building, and all machines are driven by individual motors.

Particular attention has been given to the latest devices for the rapid and economical handling of shipments.

The new building will give this old and well-known firm largely increased facilities and enable them to take care of their constantly increasing business.

* * *

Philadelphia's foreign trade covering the period of the twelve months just closed totaled approximately \$441,000,000, breaking all previous records.

Exports totaled approximately \$330,000,000 exceeding by nearly \$200,000,000 those of 1915, the previous record-breaking period, and by nearly \$225,000,000 the only other period in the history of the port of Philadelphia when the value of the exports reached the \$100,000,000 mark.

Imports during 1916 also touched the

highest figures in the history of the port, approximately \$111,000,000, an increase of \$41,000,000 over the value of imports during 1915, and \$18,000,000 greater than those of 1912, the previous high record for the port.

* * *

Andy Brann, sixty-seven years old, for fifteen years the senior member of Brann & Stuart, engineers and contractors, with offices in the Commercial Trust Building, died suddenly at his residence, 1625 North Sixteenth Street.

Mr. Brann, who was born in Ohio in 1849, took up the profession of bridge building as a young man and soon achieved national prominence. He was influential in the construction of the Eads bridge across the Mississippi at St. Louis, and while in business for himself built the Long Bridge over the Potomac at Washington, the train shed at Broad Street Station in this city, the Safe Harbor, Downingtown and Martic road elevated systems in Washington, Wilmington, Chester and Camden and the train sheds at Union Station, Pittsburgh, and at the Pennsylvania stations in Camden and Jersey City.

Mr. Brann belonged to the Manufacturers' and Columbia Clubs.

* * *

New bids opened for the construction of five dormitories at the home for the feeble-minded at Byberry show this work will cost the city \$21,000 more than when bids on the same work were first opened about two months ago.

The new bids were asked because Mitchell Brothers, who offered the low-

est bid, \$562,000, the first time, later informed Dr. Krusen the bid should have been \$662,000.

The lowest of the new bids is by Edward F. Fonder, who asks \$631,000 for the work. In the first proposal Fonder offered to do the work for \$610,000.

* * *

Charles Town Mould, sixty-two years old, an architect, died at the Pottsville Hospital following an operation. He was born in Utica, N. Y., and was a graduate of Cornell University. A widow, a son and two daughters survive. Much of his earlier work was done in Tennessee.

* * *

The Pittsburgh Plate-Glass Company will give its employees life insurance policies, according to an announcement made yesterday by the board of directors of the company. The firm, which has headquarters in Pittsburgh, employs about 125 in this city.

All employees receiving \$600 to \$3,000 a year, who have persons dependent upon them, will receive the insurance. The amount of insurance will be the same as the yearly salary of the insured. The principal will be payable to the beneficiary, \$100 at death and the remainder in twelve monthly payments. Only employees who have been with the firm three years or more are eligible.

* * *

Francis Stokes, president of the Stokes Machine Company, Seventeenth and Cambria streets, and a leading member of the Society of Friends, died at his home, 704 Locust Avenue, Germantown. He had been ill several days. He was eighty-three years old.

A NEW SPIRIT IN CIVIC BETTERMENT

Noble Foster Hoggson, President Hoggson Brothers, New York City.

Civic improvements should not necessarily mean the enhancement of a city's scheme of beautification through governmental action. It might be quite the contrary. The effort of the individual ought to signify as much in spirit, at least, as the concerted effort of a community. It is the individual spirit that is important. Let that spirit be given expression and its effect should be of real value. It shows the need and leads the way.

The point, however, is this: Efforts following along this line of least resistance, though highly laudable in themselves, most often are so thoroughly individual and disconnected that results little or no relationship between older buildings and new structures erected, or between the new structures themselves. And of course there is no unity of the whole.

The defect has been lack of co-operation; the failure to bring about concerted action of property owners in the improvements and beautification of their own holdings to harmonize with their surroundings. Certain European countries, in an effort to solve this problem, have created commissions not unlike our Building Departments, but which have broader scope and power, whose function it is to look the aesthetic as well as the practical phases of any proposed improvement in its larger relationship to the neighboring setting and surroundings.

Here in America many of the larger cities have created Town Planning bodies. This move, at least, is constructive. That it is too late to undo much of the harm already suffered only adds emphasis to the need. The problem now is not so much to correct past

mistakes of others—that cannot be done—as it is to soften the ugly scarifications, and plan for future growth. These organizations are concerned, for the most part, with the preservation of park areas and the creation of new parks, drives and occasionally new civic centres.

It is the smaller cities and suburban towns that present the greater opportunities. Here the larger aspects can be considered. They have not sinned beyond redemption. Still better, they want to be saved. The altered attitude of the last ten or fifteen years in regard to taxation imposed for civic improvements establishes that fact. It has not been many years since a proposal on the part of a municipality to expend any fair sum of money on parks, for instance, was met with most violent opposition. This is particularly true in one city in the Middle West that now boasts of the finest system of parks and drives in this country. Here the opposition at first was vitriolic.

At the same time the downtown section of that city is about as ugly and unattractive as any of the numerous ugly and unattractive business districts in most American cities. No attention was paid to establishing a small park or breathing spot anywhere near the heart of the town, nor was any necessity seen for a civic centre.

There has been and still is woeful lack of constructive imagination in connection with consistent and united and comprehensive civic improvement. It is not that we lack vision—because we do not—but we are apt to be satisfied with vision alone—to let the ideal picture in our minds satisfy our sense of need, rather than take action to transform it into an actuality.

REBUILDING OF EUROPE.

The “American Contractor” says:

“As month succeeds month in the progress of the European war one of the conjectures that is gradually assuming more definite shape is that this country will probably be called upon to supply a considerable amount of building material and perhaps to engage more directly in the work of reconstruction of Europe. The question is not one of immediate or pressing importance, for it is not known that any peace negotiations are at this time in progress. But it is one that the building trade may very appropriately begin to consider, for the longer the war continues the more important will it become.

“As it now looks, one of two conditions may develop at the close of the war. Either Europe will restore its structures very slowly, because of impoverishment, or it will rebuild the more rapidly through the co-operation of this country. It is possible, however, that even without this active co-operation the rebuilding may be rapid and that it will very sensibly stimulate the export of building materials from this country. For the work to be done will be enormous.

“It is not only that thousands of villages,

towns and cities, destroyed or seriously damaged by the contending foes, must be reconstructed, but repairs to existing structures will entail a vast amount of work and material. The usual repairs have been suspended since the war began, and as one year of neglect follows another, the deterioration becomes more rapid.

“In addition, whatever requirements there may have been for new buildings, in communities not located within the battle zones, have not been met. Scarcely a structure has been erected in all the warring countries during the last two years, except those intended for military use. In Great Britain restrictions have by law been placed upon construction work, for the materials that would there be consumed have been needed in the prosecution of the war.

“Financiers in this country are looking ahead to the work that is thus becoming more clearly probable and are considering its opportunities. Whether or not they take action, looking to the large financing of building operations in Europe after the war, there will probably be a large demand for American lumber and other forms of building material, but in the event that the rebuilding of Europe on a large scale is deemed a suitable field for American capital, there seems to be no limit to the work which the situation will present.”

CONSTITUENTS OF PORTLAND CEMENT.

It has been shown comparatively recently that the constituents of Portland cement of normal composition and normal burning are tricalcium silicate, dicalcium silicate and tricalcium aluminate. The present investigation was undertaken to show what part each of these played in developing the physical properties of this material. By the use of small amounts of boracic acid and chromium oxide as “mineralizers,” the two silicates were prepared in a fair condition of purity and in amounts large enough to permit of the making of neat and standard sand mortar test pieces. These test pieces were broken over a period of one year. The rate of setting and of hydrating was also studied, the latter both chemically and microscopically. The results show that the aluminate sets and hydrates almost immediately on the addition of water, but never attains a strength much more than 100 pounds a square inch; the dicalcium silicate takes several days for setting and at the end of one year contains but 5.5 per cent. water of hydration. It has practically no strength at seven days, but at the end of one year has a tensile strength of 600 pounds per square inch. The tricalcium silicate has all the properties of Portland cement, both in regard to setting and attaining strength.

Mixtures of either silicate with the aluminate and with the aluminate and plaster, and of both silicates with the aluminate and with the aluminate and plaster, were also studied. The effect of the aluminate was more marked on the setting properties, as was also the

case with the plaster additions; the effect of either of these two additions on the strength of either silicate or a mixture of the two was not very striking, in general not materially changing the strength of the silicate.

THE KNOCKER'S PRAYER.

O Lord, please don't let our town grow. I've been here for thirty years, and during that time I've fought every public improvement. I've knocked everything and everybody; no firm or individual has established a business here without my doing all I could to put them out of business. I've lied about them, and would have stolen from them if I had the courage. I have done all I could to keep the town from growing and never have spoken a good word for it. I've knocked hard and often. I've put ashes on the children's slide and I've made the police stop the boys playing ball on my vacant lot. Whenever I saw anyone prospering or enjoying himself, I've started a reform to kill the business or spoil the fund. I don't want the young folks to stay in this town and I will do all I can by law, rule and ordinance, to drive them away, and I have always advised the people of our town to buy their goods from a mail order house, although I knew they could buy them cheaper at home.

It pains me, O Lord, to see that in spite of my knocking, our town is growing. Some day, I fear I will be called upon to put down sidewalks in front of my property, and who knows but what I may have to help keep up the streets that run by my premises? This, Lord, would be more than I could bear. It would cost me money, though all I have was made right here in this town. Then, too, more people might come if the town continued to grow, which would cause me to lose some of my pull. I ask, therefore, to keep this town at a standstill, that I may continue to be the chief “calamity howler.”

I AM THE POSTER.

I am what I am because the leaping eye cannot deny me.

I know not doubt.

I stammer not, nor quibble.

I am the child of originality born of imperious need.

I speak with a voice of brass, but my harvest is of gold.

I follow the trail of to-morrow rather than that of to-day.

I am the modern god of color, the Titan of line.

I am the sledge hammer of art pounding on the anvil of trade.

I fling my message with the speed and smashing power of the bullet.

I hit life between the eyes and waken it anew.

I am the courier of commerce, my banner flaming always on the outer wall.

I am the poster, my home is in the market places of the world.

I am the poster.

—G. B. Clarkson.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage and Service Station, northeast corner Watts and Cambridge streets. Architect, Le Roy Rothschild, Bulletin Building, Philadelphia. Owner, Murray White, Morris Building, Philadelphia. Brick, 2 stories, 48 x 94 feet, slag roof, steam heating, cement, oak or maple floors, electric lighting, bulk windows, hollow metal skylights (electric fixtures and elevator reserved). Owner taking bids. In addition to those previously reported, Harry Gill, Jr., 2515 Germantown avenue, is figuring.

Pattern Storage Building, Holmesburg, Philadelphia. Architect, private plans. Owners, American Manganese Bronze Co., Rhawn and Hegerman streets. Brick and concrete, 2 stories, 22x64 feet, A. P. M. roof, cement and pine floors, rolling steel doors. Owners taking bids, due January 10th. I. T. Shoemaker, 1324 Walnut street; J. Sims Wilson Co., 1125 rown street; W. W. Lindsay & Co., Harrison Building; P. A. Sorenson, 1113 Callowhill street; A. R. Raff Const. Co., 1625 Thompson street; F. W. Van Loon, Denckla Building; E. R. Hall & Bro., 34 South Seventeenth street, are figuring.

Morgue and Autopsy Building (alt. and add.), northeast corner Front and Huntingdon streets, Philadelphia. Architect, J. Raymond Atkinson, 1613 North Twenty-seventh street, Philadelphia. Owner, Episcopal Atkinson, on premises. Brick, 1 story and basement, slate and tin roof, cement and tile floors, metal lath, waterproofing, hollow tile work, (1) elevator. Owners taking bids. Metzger & Fisher, Denckla Building, and Frank I. Wintz, 1613 North Twenty-seventh street, are figuring.

Store Building (remodeling), 1628 Chestnut street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, The Hawthorne Shop, care Hagendorn-Mertz Co., Third and Brown sts., Philadelphia. Brick, 4 stories, electric lighting, metal lath, dampproofing, fire doors, marble work, tin roof, hardwood and pine floors, metal ceiling, new bulks, terrazzo work (heating, office partitions, gas and electric fixtures, elevator reserved). Architects taking bids, due January 10th, at 10 A. M. Wm. R. Dougherty, 1610 Sansom street; E. E. Hollenback, Fifteenth and Race street; Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street; F. N. Davis, 840 North Eighteenth street; Graham-Campion Co., Heed uilding; E. J. Kreitzburg, 1345 Arch street, are figuring.

Bakery Building (alt. and add.), 1322-34 Ridge avenue, Philadelphia. Architects, Bartberger, Jones & Fisher, 1014 Westinghouse Building, Pittsburgh. Pa. Owners, Parkway Baking Co., Twenty-fourth and Hamilton sts., Philadelphia. Brick, 4, 3, and 1 stories, J. M. asbestos roof, cork brick, cement composition and pine floors, waterproofing, hollow tile, metal clad doors (plumbing, heating, electric

work, ovens and machinery reserved). Owners taking bids, due as soon as possible. The following is the revised list of bidders: John V. Speth & Co., 1714 Sansom street; Bailey-Lush Co., 201 North Broad street; Wm. R. Dougherty, 1610 Sansom street; Paul J. Es-sick, 1345 Arch street; Freund Const. Co., Bulletin Building.

Residences (6), Wakeling street and Rising Sun avenue, Philadelphia. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Wm. H. Lingo, 1632 Oford street, Philadelphia. Brick and stucco, 2 stories, 18x22 feet, and 30x36 feet, slate and shingle roof, hot air heating, combination lighting, hardwood floors. Plans completed. Owner ready for sub-bids.

Residences (16) and Store (1), Annsburg street, from Sith to Seventh streets. Architect, private plans. Owner, Thos. J. Brown, 1132 Land Title Building, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hot water heating, combination lighting, hardwood floors. Owner sub-letting. Will start work in a few days.

Garage, 1314 Callowhill street, Philadelphia. Architect, Wm. H. Wooters, 316 E. Alleghany avenue, Philadelphia. Owners, Estate of Frank D. Green, 1413 Vine street, Philadelphia. Brick, 2 and 1 stories, 53x140 feet, slag roof, steam heating, electric lighting, cement floors. Owners taking bids, due January 10th, from Freund Const. Co., Bulletin Building, Philadelphia.

Service Building (alt. and add.), 664-E. Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Fisk Rubber Co. of New York, 250 North Broad street, Philadelphia. Brick and steel, stone trimmings, 2 stories, 41x126 feet, slag roof, cement, maple and oak floors, metal lath, dampproofing, fire doors, ventilators, tile and marble work, metal skylights, metal bulks, office partitions, rolling steel shutters (plumbing, steam heating, electric work and elevators reserved). Architect taking bids, due January 10th. The following are figuring: Stacy Reeves & Sons, 2011 Market street; E. E. Hollenback, Fifteenth and Race streets; H. E. Baton, Twelfth and Sansom streets; Wm. R. Dougherty, 1610 Sansom street; Smith-Hardican Co., 1606 Cherry street; Mitchell ros., and A. R. Raff Cont. Co., 1635 Thompson street; Nickson Dugan Const. Corp., 1218 Chestnut street; Abel Bottoms & Sons Co., 3611 Walnut street, Philadelphia.

Residences (9), Eighth and Bristol streets, Philadelphia. Architect, private plans. Owners, Bauerle & Erny, 4159 North Ninth street, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owners will take sub-bids about February 1, 1917.

Residences (27), Franklin street, from Rockland to Loudon streets. Architect, private plans. Owners, Bauerle & Erny, 4159 North

Ninth street, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owners will take sub-bids about February 1, 1917.

Garages (40), Wagner avenue, east of Thirteenth street, Philadelphia. Architect, Frank K. Stahl, 2713 Park avenue, Philadelphia. Owner, Geo. E. Noll, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 9x20 feet, slag roof, steam heating, cement floors, electric lighting. Plans about completed. Owner will take bids.

Residence, Germantown, Philadelphia. Architect, H. Rex Stackhouse, 129 South Fifth st., Philadelphia. Owner, name withheld. Brick, hollow tile and plaster, 2½ stories, 30x60 feet, shingle roof, hot water heating, oak floors, electric lighting, tile. Will take bids in a few days.

Residences (22), Rockland street, between Ninth and Tenth streets, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Friedrich, Cades & Hoffman, 1307 Haddon avenue, Camden, N. J. rick, 2 stories, 16x48 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owners ready for sub-bids.

Structural Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., care Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Steel and corrugated iron, 1 story, 200x700 feet. Owners taking bids, due January 29th. Plans and specifications can be obtained from the bureau at Washington, D. C., or commandant's office at League Island, Philadelphia.

Crane Runway for Shipbuilding Slip, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., care Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Structural steel. Owners taking bids, due January 2d. Plans and specifications can be obtained from the bureau at Washington, D. C., or commandant's office at League Island.

Garage, 115 W. Seymour avenue, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Stone, 1 story, 77x100 feet, slag roof, electric lighting, steam heating, concrete floors, gasoline storage system. Architects taking revised bids, due January 15th, at 10 A. M. The following are figuring: Freund Const. Co., Bulletin Building; John McShane, 1610 North street; Stacy Reeves & Sons Co., 2011 Market street; Smith-Hardican Co., 1606 Cherry street; Hogg Const. Co., 1633 Sansom street; Frank Mark Cont. Co., 2820 N. Twenty-first street; Conneen Const. Co., 1829 Filbert street, and H. E. Sweger, 4435 North Uher street, all of Philadelphia.

Residences (29), Twentieth street and Sixty-sixth avenue, Oak Lane, Philadelphia. Architect, E. Allen Wilson, 1206 Chestnut street, Philadelphia. Owner, J. Crawford,

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5136 Chancellor street, Philadelphia. Brick, (14), 16x32 feet and (15), 15.8x42 feet, slag roof, hot water heating, electric lighting, hardwood floors, 2 basement garages, cement work. Plans about completed. Owner will take bids in about one week.

Store and Residence, north side of Spruce street, east of Sixty-third street. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Fienberg, care of A. E. Hurshman, 510 Lincoln Building, Philadelphia. Brick, 2 stories, 15x63 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner taking sub-bids.

Residences (30), Fifty-fourth street, between Florence and arrington avenues. Architect, private plans. Owners, Ferguson & MacDowell, 1003 South Fifty-first street, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owners will be ready for sub-bids in three weeks.

Residences (28), Fairhill and Duncannon streets, Philadelphia. Architect, private plans. Owner, Ira K. Davis, 3020 North Twenty-fourth street, Philadelphia. Brick, 2 stories, 15x31 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner will take sub-bids in about two weeks.

Residences (45), and Garages (3), Fifty-sixth and Willows avenue. Architect, private plans. Owner, W. C. Scull, 5705 Master street, Philadelphia. Brick, 2 stories, 15x31 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking sub-bids. Will start work soon.

Store Building (alt.), 34 North Fifth street, Philadelphia. Architect selected, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Commercial Photo-Engraving Co., Tenth and Arch streets. Brick and stone, 3 stories, consists of interior alterations, pine floors, store fixtures (plumbing, heating, lighting reserved by owners). Plans in progress. Owners will take bids in a few days.

Bank Building (interior alt.), 325-31 Chestnut st. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Fidelity Trust Co., on premises. Brick, concrete and hollow tile, 2 stories, plumbing, steam heating, combination lighting, metal lath, wire grilles, maple floors, metal lockers, dumb-waiters, rolling steel shutters, tile and marble work. Architect has received bids.

Store and Dwelling, 508 South street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Bierns & Cylinder, 521 Mifflin street. Brick, 3 stories, 38x120 feet, slag roof, hot water heating, combination lighting, metal lath, tile and marble work, pine floors. Plans in progress. Owners will be ready for sub-sibs in ten days.

Garage and Office Building, 127 E. Mermaid lane, Chestnut Hill. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, Andrew O'Neill, on premises. Brick, 2 stories, 30x60 feet, slag roof, steam heating, electric lighting, cement and pine floors, tile work. Plans in progress. Architects will take bids in a week.

Store Building alts.), 1514-1516 Market street, Philadelphia. Architects, Henon &

Boyle, 10 South Eighteenth street, Philadelphia. Owner, D. Becker, on premises. Consists of new front and general interior alterations, brick work, hardwood floors, tile and marble work, electric lighting. Architects taking bids, due January 15th. Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street; Freund Const. Co., Bulletin Building; Stacy Reeves & Sons Co., 2011 Market street, and Hogg Const. Co., 1634 Sansom street, are figuring.

Synagogue (new storm front), southwest corner Broad and Mt. Vernon streets. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Congregation of Rodef Scholem, on premises. Frame, mill work, etc. Architect taking bids.

Residences (39), Tioga and F streets, Philadelphia. Architect, private plans. Owner, J. J. Pearson, 1208 Commonwealth Building, Philadelphia. Brick, 2 stories, 15x46 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner will take sub-bids in a month.

Residence, Overbrook, Philadelphia, \$30,000. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner's name withheld. Brick and plaster, 2½ stories, 34x60 feet, slate roof, vapor heat, electric lighting, metal lath, hardwood floors, cabinet work, tile work. Plans about completed. Architect will take bids soon.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Service Building, southeast corner Broad and Huntingdon streets, \$150,000. Architect, Chas. E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, R. A. Heymann & Bros., Widener Building, Philadelphia. Lessees, Goodyear Tire & Rubber Co., 207 N. Broad street. Brick and reinforced concrete, 2 and 1 stories and basement, 115x129 feet, and 168x109 feet, slag roof, maple, oak and cement floors, steam heat, electric light, rolled steel sash, fire doors, etc. Contract awarded to Warren-Moore Co., Commercial Trust Building.

Sunday School, Greene street and School House lane, Germantown, \$75,000. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, Second Church of Christ Scientist. Brick and hollow tile, stone trimmings, 2 stories, 68x75 feet, slag and tile roof, steam heating, electric lighting, metal lath, cement and pine floors, asphalt paving, fire doors, safety treads, marble work. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Factory, Delhi and Columbia avenue, Philadelphia, \$30,000. Architect, private plans. Owners, John E. Sjoström Co., Inc., 1719 N. Tenth street, Philadelphia. Brick, 3 stories, 96x154 feet, slag roof (heating reserved),

Store and Residence, north side of Spruce street, east of Sixty-third street. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. Fienberg, care of A. E. Hurshman, 510 Lincoln Building, Philadelphia. Brick, 2 stories, 15x63 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner ready for sub-bids.

Sewers, Water Mains, etc., Twenty-fourth to Twenty-fifth, Washington to Point Breeze avenues, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, Room 416, City Hall. Consists of sewers, water mains, demolition, paving, sidewalks, curbs, grading. Owners taking bids, due January 18th at noon.

Residence, Overbrook, Philadelphia, Pa., \$8,000. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner's name withheld. Brick, 2½ stories, 24x32 feet, shingle roof, steam heating, electric lighting, pine floors. Plans in progress.

Garage and Service Building, Fifty-fifth and Market streets, Philadelphia. Architect, Frank V. Greenstein, 715 Empire Building, Philadelphia. Owner's name withheld. Brick and steel, 2 stories, 58x110 feet, slag roof, steam heating, electric lighting, ventilators, cement and pine floors, elevator, gasoline storage system. Plans in progress.

electric lighting, steel sash, fire doors, freight elevators, skylights. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Coal Trestle, Sixteenth and Indiana avenue, Philadelphia, \$800. Architect, private plans. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Lessees, Lampert Coal Co., on premises. Concrete piers (cement reserved). Contract awarded to Guy Croyle, Merion, Pa.

Office Building (alt.), Fifth and Girard avenue, \$80,000. Architect, Const. Dept., Swift & Co., 60 N. Market street, Easton, Mass. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, 3 stories, 35x140 feet, composition roof, terrazo and linoleum floors, metal lath, fire doors, safety treads, tile work (electric work and steam heating reserved). Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Store (alt.), 1311-13 Sansom street, Philadelphia, \$5,000. Architects, A. J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Yahn & McDonnell, Fifteenth and Chestnut streets, Philadelphia. Steam heating, electric lighting, metal lath, hollow tile work, maple and parquet floors, cabinet work, tile work, store fixtures. Contract awarded to

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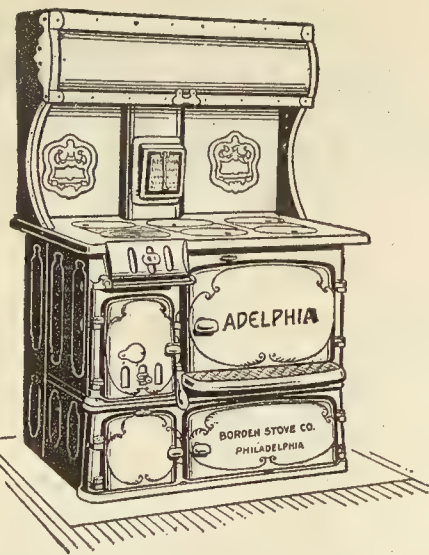
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Hughes-Foulkrod Co., Commonwealth Building.

Machine Shop, Darien and ood streets, Philadelphia. Architects, Neubauer & Boyd, 1112 Chestnut street, Philadelphia. Owners, Shiller & Nolan, 820 Cherry street, Philadelphia. rick, concrete and steel, 2 stories, 33x57 feet, slag roof, metal sash, electric lighting, steam heating, concrete and wood floors. Contract awarded to Max J. Benamy, 3042 W. York street, Philadelphia.

Office Building (New) and Operating Building (alt. and add.), Cheltenham and Germantown avenues, Germantown, \$200,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, ell Telephone Co., Seventeenth and Arch streets, Philadelphia. rick, steel, reinforced concrete and terra cotta, 3 stories, 90x138 feet, slag, slate and tile roof, hot water heating, electric lighting, metal lath, sash and casements, waterproofing,

fire doors, safety treads, tile and marble work, cement and terrazzo floors, hollow tile, elevators, cabinet work. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Store (alt. and add.), Eleventh and Chestnut streets, Philadelphia, \$12,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Walter G. Becker, 1018 Chestnut street, Philadelphia. Consists of interior alterations, 5 stories, 25x80 feet, steam heat, electric lighting, cabinet work, store fixtures, tile and marble work. Contract awarded to Thomas M. Seeds, Jr., Co., 1207 Race street.

Store (alt.), 416 Market street, Philadelphia. Architect, private plans. Owner, John H. Schewehm, 1517 Wistar street, Germantown. Consists of new front, metal ceiling, electric lighting, interior alterations. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

PENNSYLVANIA

Construction News

Service Building, Overbrook, Pa. Architect, Paul A. Monaghan, Drexel Building, Philadelphia. Owners, Phila. Theological Seminary of St. Charles Borromeo, Overbrook, Pa. Stone, steel, hollow tile, reinforced concrete, terra cotta, 3 and 1 story, 112x43 feet and 44x80 feet, slag, slate and tile roof, electric elevator, hollow metal skylights, terrazzo work, tile and marble work (heating, electric work, cement sidewalks and road work reserved). Architect has received revised bids.

Bank Building, Ambler, Pa. Brick, 1 story, 40x62 feet, slag roof, electric lighting, cabinet work. Owners, care Howard J. Dager, secretary, Ambler, Pa., taking sub-bids.

Stable and Garage (alt.), Haverford, Pa. Architects, Evans & Warner, Witherspoon Building. Owner, Clarence Warden, Haverford, Pa. Consists of plumbing, electric lighting, pine floors, plastering, mill work. Architects have received bids.

Residences (5), Lodge Manor, Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, P. J. Lawler, Bala, Pa. Stone, 2½ stories, shingle roof, hot water heating, electric lighting, hardwood

floors, tile work. Plans in progress. Owner will take sub-bids about February 1, 1917.

Bungalow, Penfield, Pa. Architects, R. H. Pepper, 1208 North Seventh street, Philadelphia. Owner, name withheld. Stone and frame, 1 story, 3923 feet, shingle roof, steam heat, gas lighting, pine floors. Architect taking bids, due January 20th. The following are figuring: Robert Merkel, 663 North Park avenue; Kenin & Shapiro, Fifty-ninth and Market streets; Carr & Hinkle, Sixty-third and Market streets; D. R. Evans, Beechwood, Pa.

Residence (alt. and add.), Rosemont, Pa. Architect, Ralph E. White, Penna. Building, Philadelphia. Owner, Miss Alice M. Patten, on premises. Brick and frame, 2 and 1 stories, 28x10 feet and 13x18 feet, shingle roof, tile, asbestos and brick floors, electric lighting. Architect taking bids. Jacob Myers & Sons Co., Witherspoon Building, are figuring (only bidder).

Dormitory Buildings (5) and **Connecting Corridors**, Byberry, Pa. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dr. Wm. Kru-

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sen, director, Dept. of Public Health and Charities, City Hall. Brick, stone and hollow tile (1) 2 stories, 54x88 feet and (4) 2 stories, 100x50 feet, slate and slag roof (plumbing, vacuum heating and electric lighting separate bids). Lowest bidder, E. F. Fonder, Land Title Building, \$631,900.

Residence (alt.). Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, T. Elwood Bartram, Lansdowne, Pa. Brick, 3 stories, 40x40 feet, slate roof, hot water heating, electric lighting, new plumbing and interior changes. J. Howard Roberts, Lansdowne, Pa., is taking sub-bids.

Residence (alt. and add.). Chadds Ford, Pa. Architects, De Armond, Ashmead and Bickley, Owners, Charles S. Holladay, 1309 Delaware avenue, Wilmington. Brick and plaster, 2½ stories, 90x125 feet, tin roof, hardwood floors. Revised plans in progress.

Hospital (add.). South Bethlehem, Pa. Architect, A. W. Leh, Post Office Building, South Bethlehem, Pa. Owner, name withheld. Brick, and stone, 2 stories and basement, 130 x40 feet. Preliminary plans in progress.

Department Store (add.). Easton, Pa., \$60,000. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owner, W. B. Laubach, Easton, Pa. Brick and concrete, 7 stories, 50x70 feet, slag and concrete roof, concrete and wood floors, steam heating, electric lighting, metal lath, sprinklers tile and marble work. Architect taking bids, due January 20th. The following are figuring: R. T. & C. D. Stewart Const. Co., Asa Smith & Son, F. J. Larch & Co., and A. A. Sechtel, all of Easton, Pa.; W. H. Fissell & Co., Broadway and Twenty-fourth street, New York City; and Read Const. Co., Reading, Pa.

School House, Fountain Hill, Pa., \$30,000. Architect, E. H. Bittling, Wilbur Trust Building, South Bethlehem, Pa. Owners, Borough of Fountain Hill, Fountain Hill, Pa. Brick, 2 stories, 80x48 feet, slag roof, steam heating, maple floors, electric lighting. Plans in progress. Owners will advertise for bids in about one week.

Residence (alt. and add.). South Bethlehem, Pa. Architect, Wm. Michler, Drake Building, Easton, Pa. Owner, T. M. Dodson, South Bethlehem, Pa. Brick and stone, 3 stories, 10 x15 feet, slate roof, hardwood floors, electric lighting, tile and marble work. Plans completed.

Residence (alt. and add.). Wyomissing, Pa.

Architect, L. D. Lance, Wyomissing, Pa. Owner, F. T. Kitzmiller, Wyomissing, Pa. Consists of brick porches, new windows, tile work. Plans in progress.

Garage, Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, T. S. Kitzmiller, Wyomissing, Pa. Brick and plaster, 1 story, 24x26 feet, shingle roof, steam heating and electric work extension, concrete floors. Plans in progress.

Residence, Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, Paul Sheris, Buttonwood and Front streets, Reading, Pa. Brick, 2 stories, 24x36 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress.

Factory (alt. and add.), Cedar and Buttonwood streets, Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owners, Penn Rag and Metal Co., on premises. Brick and frame, 2 or 3 stories, 52x97 feet, Carey roof, electric lighting, metal lath, fire doors, wood floors (elevator reserved). Plans about completed.

School, Rockdale, Essex County, Pa. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Board of Rockdale, care of Dr. Gray, Rockdale, Pa. Brown stone, 2 stories, 90x52 feet, slag roof, hot air heating, electric lighting, wood floors, ventilators (heating, ventilating, plumbing and electric work reserved).

Residence (alt. and add.), Haverford, Pa. Architects, Broekie & Hastings, 1713 Sansom street, Philadelphia. Owner, Mrs. Herbert Warden, on premises. Stone, 2½ stories, hot water heating, electric lighting, metal lath, pine floors, porch enclosures, brick paving, tile work. Architects taking bids, due January 10th. H. H. Burrell, 206 South Quince street; J. P. Thompson, Real Estate Trust Building; Wm. H. Edleman & Sons, 453 Green lane, Roxborough, and John Z. Weaver, 227 Ardmore avenue, Ardmore, Pa., are figuring.

School, Rockdale, Pa. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Board of Ashton Township, Delaware County, Pa. Stone and brick, 2 stories, 90x52 feet, slag roof, gum and cement floors (plumbing, heating, ventilating and lighting separate bids). Owners, care of Dr. A. S. Gay, R. P. D. No. 2, Media, Pa., taking bids, due January 25th. Hogg Const. Co., 1634 Sansom street, Philadelphia, are figuring.

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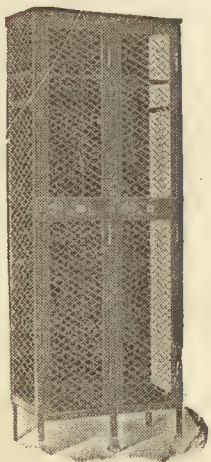
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PENNSYLVANIA

Contracts Awarded

Residences (60), Coatesville, Pa., \$200,000. Architect, W. Leslie Walker, 103 Park avenue, New York City. Owners, Worth Bros. Co., Coatesville, Pa. Brick and stucco, 2 and 2½ stories, 20x24 feet, 21x22 feet, 23x26 feet, slate roof, pine floors, metal lath (plumbing, heating and lighting reserved). Contract awarded to Pomeroy Const. Co., 1605 Ransstead street.

Bridge No. 52 (extension), South of Valley, Chester County, Pa. Architect, S. T. Wagner, Reading Railway Co., Philadelphia. Owners, Phila. & Reading Railway Co., Reading Terminal. Steel and concrete, asphalt work, excavation, masonry. Contract awarded to Jas. McGraw Co., Commercial Trust Building.

Residence, Ardmore, Pa. (St. George's road), \$12,000. Architects, De Armond, Ashmead & Bickley, 618 Chestnut street. Owner, Dr. H. Maxwell Langdon, 2013 Chestnut st., Philadelphia. Brick, 2½ stories, 30x45 feet, slate or shingle roof, wing 20x25 feet, hot water heating, electric lighting, oak and cement floors, metal lath, tile work. Contract awarded to Chas. C. Pace, Merion, Pa.

Bridge No. 51, south of Winfield, Pa. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading Railway Co., Reading Terminal. Steel and concrete, 50 feet long, waterproofing. Contracts for substructure to Reading Cont. Co., Reading, Pa. Superstructure to American Bridge Co., Widener Building, Philadelphia.

Residence (alts.), Eddington, Pa. Architect, Herbert J. Wetherill, 10 South Eighteenth street, Philadelphia. Owner, Robert R. Logan, Eddington, Pa. Consists of new billiard room and general interior alterations. Contract awarded to N. H. Freas, Andalusia, Pa.

Toilet Stations (2), Reading shops, Reading, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. and

Reading Railway Co., Reading Terminal. Brick and concrete, 1 story, 22x35 feet and 22x22 feet, slag roof (heating and lighting reserved), cement and asphalt floors, ventilators. Contract awarded to Wm. H. Wiand, Pottstown, Pa.

Bridge No. 56, west of Palmyra on Lebanon Branch. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, P. & R. Ry. Co., Reading Terminal, Philadelphia. Steel, 68 feet long x 24 feet wide, concrete work, asphalt paving. Contract awarded to McClintie-Marshall Co., Morris Building, Philadelphia.

Bridge No. 57, east of Hershey on Lebanon Valley track. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading Ry. Co., Reading Terminal, Philadelphia. Steel, 96 feet long x 24 feet wide, concrete work, asphalt paving. Contract awarded to McClintie-Marshall Co., Morris Building, Philadelphia.

Moose Home, South Bethlehem, Pa., \$40,000. Architect, E. H. Bitting, Wilbur Trust Building, South Bethlehem. Owners, Loyal Order of Moose, South Bethlehem, Pa. Brick, cement and stone, 3 stories, 20x45 feet, cement roof, hot water or steam heating, electric lighting, cement floors, tile and marble work (1) dumbwaiter (heating and bowling alleys reserved). Contract awarded to Jacob Eagle, Allentown, Pa.

Warehouse (alt. and add.), Third and Kerlin streets, Chester, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, John J. McClure, 700 West Third street, Chester, Pa. Brick and reinforced concrete, 3 stories, addition, 41x47 feet, slag roof, cement and maple floors, metal lath, dampproofing, fire doors (plumbing, heating, lighting, elevator, painting and tile work reserved). Contract awarded to James H. Wells, Heed Building, Philadelphia.

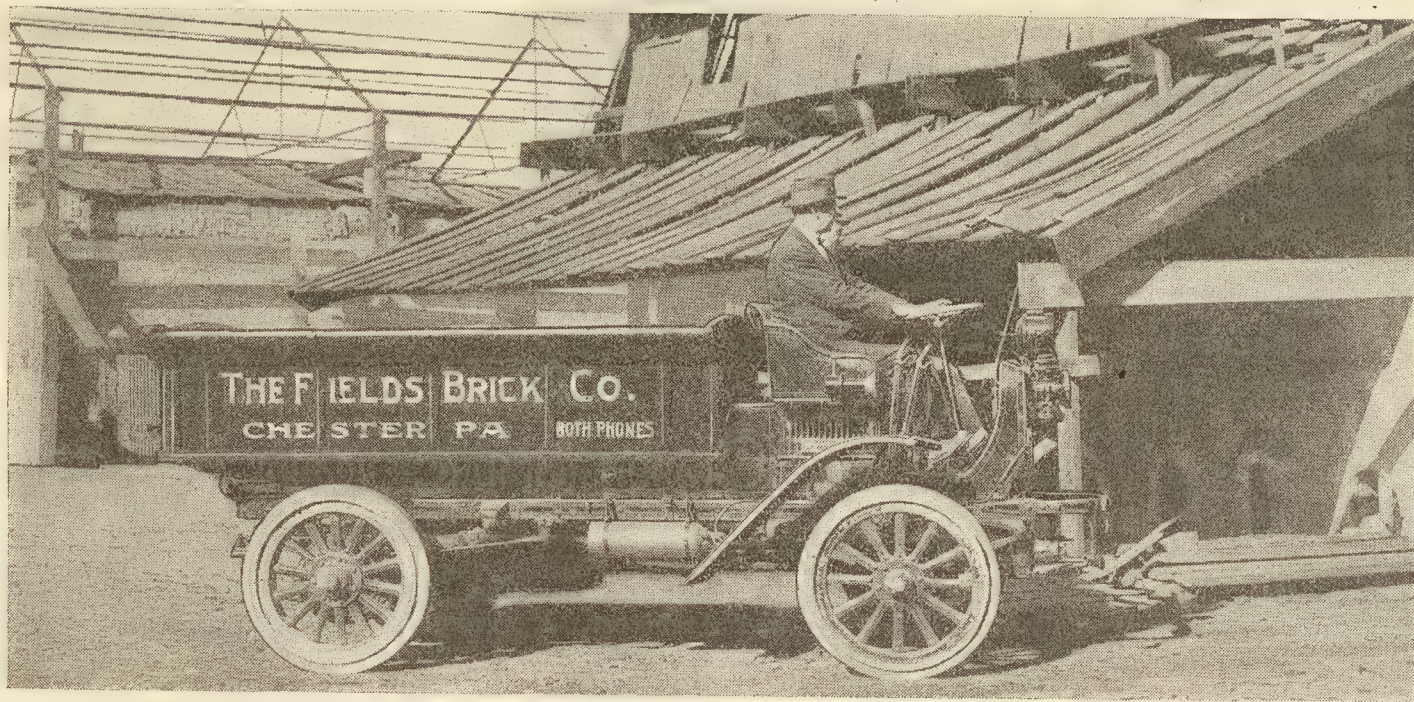
Miscellaneous Construction News

College Buildings, Morgantown, W. Va., \$200,000. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owners, University of W. Va., State board of Control, Charlestown, W. Va. Brick, stone, concrete and steel, terra cotta and limestone trimmings, agricultural building, 3 stories, 86x188 feet;

dormitory building, 3 stories, 43x220 feet, cement work, metal lath, fire doors, ventilators, marble and tile work (heating, plumbing and electric work reserved). Owners taking bids, due February 14th, at 2 P. M.

Residence and Garage, Dover, Del., \$40,000. Architects, De Armond, Ashmead & Bickley,

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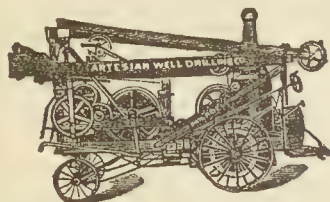
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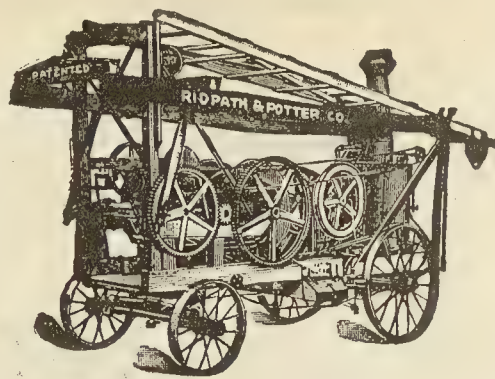
Real Estate Trust Building, Philadelphia

1529 Walnut street. Owner, Josiah O. Wolcott, Dupont Building, Wilmington, Del. Brick, 2½ stories, 117x35 feet, shingle roof, vapor heating, electric lighting, hardwood floors, tile work. Revised plans in progress.

Garage (alt.), Tenth and Shipley streets, Wilmington, \$4,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, A. B. Rothacker, on premises. Brick and stone, 2 stories, 40x40 feet. Plans in progress. Too early for details.

Y. W. C. A. Building, Tenth and King sts., Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Y. W. C. A. of Wilmington, Del., on premises. Brick and stucco, 5 stories in front, 2 in back, 134x74 feet, slag roof, electric lighting, metal lath, hollow tile partitions, metal lockers, elevator, 2 dumb waiters, terrazzo work, tile and marble work (heating not decided). Plans in progress.

Poormen's Hotel, Detroit, Mich. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, stone and terra cotta. Plans about to be started. Details not decided.



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NEW JERSEY Construction News

Apartment House, S. Penna. avenue, Atlantic City, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, Revere Apts. Co., Atlantic City, N. J. Brick, steel and hollow tile, stone trimmings, 5 stories, 92x132 feet, slag roof, hot water heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, oak and pine floors, cement floors, (1) elevator, (1) dumbwaiter. Architect taking bids, due January 10th. The following are figuring: Roydhouse-Arey Co., Fidelity Building, Philadelphia; J. Mathis & Son, and S. H. Headley, both of Guarantee Trust Building, P. Hannum, 16 North Georgia avenue; W. L. Porch, Sheen Building; W. Beaumont, 12 S. Tenn. avenue; Ansley Bowen, 17 N. Boston avenue; all of Atlantic City.

Residence and Garage, Elberon and Atlantic avenues, Atlantic City. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owner, John Conlin, S. Iowa avenue, Atlantic City, N. J. Brick and stucco, 2½ stories, 53x25 feet, slate roof, hot water heating, electric lighting, metal lath, oak floors, tile and marble work (heating, metal lath, oak floors, tile and marble work (heating and plastering reserved). Architect taking bids, due January 15th. The following are figuring: Ellsworth Smith, Thompson Bros. 14 S. Ohio avenue; W. J. Porch, Sheen Building; P. G. Hannum, 16 North Georgia avenue; Taylor & Co., 401 Bartlett Building; Chas. D. Thompson, 525 Bartlett Building; and Mr. Young, 15 S. Ohio avenue, all of Atlantic City, N. J.

Garage, Atlantic City, N. J., \$1,000. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owner, Harry B. Cook, Atlantic City, N. J. Brick and stucco, 1 story, 14x22 feet, slate roof, hot water heating, electric lighting, concrete floors. Plans in progress.

Power House (alt. and add.), Baltic avenue, Atlantic City, N. J. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owners, Atlantic Sewage Co., Guarantee Trust Building. Brick, 1 story, 65x100 feet, slag roof, steam heating, electric lighting, cement floors. Owners sub-letting all contracts.

Residence, Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone, hollow tile and plaster, 2½ stories, 36x20 feet, shingle roof, electric lighting. Plans in progress. Will take bids in about ten days.

Erecting Shop (add.), Camden, N. J. En-

gineer, private plans. Owners, Camden Iron Works, Coopers Creek and Line street, Camden, N. J. Brick, steel and concrete, 1 story, 60x52 feet, slag roof, concrete floors. Owners taking bids, due January 10th. Mockett Const. Co., Sixth and Market streets; Wm. Wifford, 525 Market street; Geo. W. Turner, 828 Broadway; J. W. Draper, 436 Haddon avenue, all of Camden, N. J.; H. B. Best Co., 52 Vanderbilt street, New York City; J. S. Rogers Co., Moorestown, N. J., and the Driscoll Const. Co., Stock Exchange Building; Freund Const. Co., Bulletin Building, Philadelphia; Hugh B. Miller, Edgewater Park, N. J.; J. Sims Wilson Co., 1125 Brown street, Philadelphia, are figuring.

Residence, Douglas Manor, Long Island, N. Y. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, name withheld. Hollow tile and plaster, 2½ stories, 35x50 feet, slate or asphalt shingle roof, hot water or vapor heating, electric lighting, tile work. Plans in progress. Architects will take bids in two weeks.

Bungalow and Garage, Bridgeton, N. J. Architects, Custer & Seltzer, 304 Market st., Camden, N. J. Owners, John Stiles, Bridgeton, N. J. Hollow tile, 1½ stories, 50x60 feet and 1 story, 18x18 feet, shingle roofs, hot water heating, electric lighting, tile work, hardwood floors. Architects taking bids, due January 12th. The following are figuring: H. H. Hankin & Bro., Geo. Maier & Bro., and Mark Williams, all of Bridgeton, N. J.

Y. M. H. A. (alt.), Stockton street, Trenton, N. J., \$25,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Y. M. H. A. of Trenton, N. J. Consists of general alterations to club house, new gymnasium, meeting room, club rooms, ball room, ladies' reception room, safety treads, tile and marble work. Plans in progress.

Laboratory Building, Trenton, N. J., \$20,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Trenton, N. J. Brick and mill construction, 4 stories, 50x40 feet, slag roof, hot water heating, electric lighting, dumb waiters. Plans in progress.

Rectory Berkley and Overbrook avenue, Trenton, N. J., \$8,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Parish of All Saints, Berkley and Overbrook avenue. Stone, 2½ stories, 34x44 feet, slag roof, hot water heating, electric lighting. Architects taking bids, due January 11th. Ed. La Rue and Fred Parker, both of Trenton, are figuring.

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Factory (add.), Mulberry street, Trenton, N. J., \$8,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Imperial Porcelain Co., on premises. Brick, 4 stories, slag roof, electric lighting, elevator, wood floors. Plans in progress.

Store and Apartment, Trenton, N. J., \$6,000. Architect, J. P. Pette, 131 Jackson street, Trenton, N. J. Owner's name withheld. Brick, 2 stories, 65x25 feet, hot water heating, electric lighting, yellow pine floors. Preliminary plans in progress.

Garage. 518 West street, Camden, N. J., \$2,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Wm. C. Davis, care of architects. Brick, 1 story, 20x100 feet, slag roof, electric light, cement floors, hollow tile, ventilators, gaso-

line storage system. Architects taking bids, due January 19th. H. C. Sharp, 410 Main street; Turner Const. Co., 828 Broadway; Wm. Wrixford, 525 Market street; A. Bachmann, 19 North Third street; Bareklow & Fulton, 136 Cherry street, all of Camden, and Philadelphia Const. Co., 9 South Eighteenth street, Philadelphia, are figuring.

Parish House, Collingswood, N. J., \$9,000. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owners, Holy Trinity P. E. Church, Rev. T. Wallis Ohl, Collingswood. Hollow tile and stucco, 1 story and basement, 31x70 feet, slate roof, hot water heating, combination lighting, metal lath, hollow tile, safety treads, North Carolina pine floor. Architects have received bids.

NEW JERSEY

Contracts Awarded

Bungalow, Stone Harbor, N. J. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Frame, 1½ stories, 25x40 feet, shingle roof, electric light. Contract awarded to Larsen Cont. Co., Stone Harbor, N. J.

Cigar Factory (alt. and add.), Adeline and Beatty streets, Trenton. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Bayuk Bros., Third and spruce sts., Philadelphia. Brick, slow burning, 3 stories, 40x100 feet, wing 1 story, 22x100 feet, slag and slate roof, metal lath, steam heating, (1) elevator, electric lighting, modern plumbing, skylights, wood and composition floors. Builder Alfred Warren, Adeline and Beatty streets, Trenton, N. J., is taking sub-bids.

Supports in Turbo, Generator, and Condensor in River Power House, Camden, N. J., \$7,900. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Steel and concrete. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Hotel (alt. and add.), 158 S. Tenn. avenue, Atlantic City, \$50,000. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Hotel Fredonia, Wm. Carmony, on premises. Reinforced concrete, brick and steel, 6 stories, 75x100 feet, slag roof, steam heating, electric lighting, metal lath, damp-proofing, fire doors, hardwood floors and tile work, elevators, cabinet work. Contract awarded to W. J. Porch, Sheen Building, Atlantic City, N. J.

Residences (3), Plaza Place, Atlantic City, N. J., \$21,000. Architect, S. G. Dobbins, City Square Theatre Building, Atlantic City. Owners, Plaza Land Co., Atlantic avenue, Atlantic City, N. J. Frame and stucco, 2 stories, 36x32 feet, slate roof, hot water heating, cement floors, electric lighting, tile and marble work. Contract awarded to Hampton Bros., 4403 Atlantic avenue, Atlantic City, N. J.

Maryland

Construction News

Storehouses (6), Indian Head, Md. Architect, private plans. Owners, U. S. Govt, care Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Steel and corrugated iron, 1 story, corrugated iron roof, concrete floors. Owners taking bids, due January 15th. Plans and specifications can be obtained from the bureau at Washington, D. C.

Residence, near Elkton, M. Architect, R. E. White, Penna. Building, Philadelphia. Owner, Chas. K. Lonnig, care architect. Stone and frame, 3 stories, 50x40 feet, slate and slag roof (electric lighting and heating reserved). Plans in progress.

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NEW YORK'S ZONING LAW.

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The recently adopted zoning law of New York City will limit the height of buildings in proportion to the widths of the streets on which they face, all the way from two and a half times the width of the street in the financial district, through two times the width of the street in central Manhattan, with one and one-half times in the remainder of Manhattan and in small portions of the other boroughs, down to the width of the street throughout all the rest of the city. A future Equitable Building could only be a third as high, because it faces on narrow streets, but a tower in the center of it, half as large again as the Woolworth tower, might rise to any height. The Woolworth Building, on the other hand, if facing on a park, might be very nearly duplicated. Twelve and fourteen story apartments will continue to go up on the main avenues, and eight and nine story apartments on the side streets, but no building of any kind can go any higher except by setting back from the street. Throughout most of the city, however, four or five stories will be the limit. Towers may be built to any height, but they cannot cover more than a quarter of the lot. Mansards, dormers and terraces are encouraged; anything that will open up the streets and bring light down into them by making the upper part of the buildings set back from the street above a reasonable height.

The size of buildings will be controlled by the fact that the law requires just so much open space on each lot. This again ranges all the way from the warehouse districts along the commercial waterfront and along the freight railways, where a building may cover the whole of its lot, through the B, C and D districts, so-called, in each of which, in succession a building has to provide for larger and larger yards and courts, down to the villa districts, where a house can cover only thirty per cent. of its lot and must be widely separated from its neighbor on at least one side. Throughout Manhattan and the densely built-up portions of the other factories, lofts, hotels, apartments; in fact, all buildings, would have to be as large as those that have been required for the last fourteen years in tenement and apartment houses. Everywhere the yards and courts have to be increasingly larger at the top as a building goes up in height.

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Permits for New Buildings

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Philadelphia

Factory, Delhi street, north of Columbia avenue, \$30,000. John E. Sjoström (O), 1629 North Tenth street. Smith Hardican Co (C). 1606 Cherry street. Brick, 3 stories, 40x40 feet, slag roof, steam heating.

Garages, Allegheny avenue, east of Fourth street, \$4,500. Phila. and Reading RR. Co. (O), Reading Terminal. Fred Havens Co. (C), 845 North Nineteenth street, Philadelphia. Brick, 2 stories, 42x34 feet, slag roof, steam heating.

Dwellings (26), north side of Duncannon street, west of Fairhill street, \$52,000. Ira Davis (O and C), 2400 North Oakdale street. Brick, 2 stories, 15x21 feet, slag roof, hot water heating.

Nurses' home, Thirty-fourth and Pine sts., \$198,000. City of Philadelphia (O), City Hall. Warren-Moore Co. (C), Commercial Building. Brick, 6 stories, 134x134 feet, slag roof.

Apartment house, Juniper and Latimer streets. Owner's name withheld. Harry C. Eisenbise (C), Pennsylvania Building. Hollow tile, 5 stories, 67x67 feet, slag roof, steam heating.

Dwellings (15), Williams avenue, west of Fifty-sixth street, \$105,000. Wm. C. Scull (O and C), 5705 Master street. Brick, 2 stories, 15x32 feet, slag roof, hot water heating.

Factory, Tenth and Cherry streets, \$30,000. Jos. Judovich (O), 263 South Second street. B. Bornstein (C), 1510 North Franklin street. Brick, 4 stories, 42x42 feet, slag roof, steam heating.

Dwelling, Ogontz and Washington lane, \$10,000. Edw. F. Schwingle (O and C), 7125 Boyce street. Stone, 3 stories, 48x20 feet, tile roof, hot water heating.

Dwellings (26), Sixty-fifth street, north of Allman street, \$72,200. Wm. J. Erwin (O and C), 5927 Kingsessing avenue. Brick, 2 stories, 16x30 feet, slag roof, hot water heating.

Dwellings (26), Belmar street, east of Fifty-seventh street, \$60,000. Jas. C. Enburg (O and C), 5200 Wynnefield avenue. Brick, 2 stories, 16x34 feet, slag roof, hot water heating.

Stable, Delaware avenue and Queen street, \$845. Penna. RR. Co. (O), Broad Street Station. Turner Concrete Steel Co. (C), 1713 Sansom street. Brick, 1 story, 8x15 feet.

Office and tool house, Commercial and Swanson streets, \$11,840. Penna. RR. Co. (O), Broad Street Station. Turner Concrete Steel Co. (C), 1713 Sansom street. Brick, 1 story, 24x75 feet.

Yard's clerk office, Front and Wharton sts., \$1,310. Penna. RR. Co. (O), road Street Station. Turner Concrete Steel Co. (C), 1713 Sansom street. Iron, 1 story, 7x16 feet.

Loading platform, Front and Wharton sts.,

\$20,350. Penna. RR. Co. (O), Broad Street Station. Turner Concrete Steel Co. (C), 1713 Sansom street. Loading platform, 1 story, 40x210 feet; carpenter shop, 1 story, iron and frame, 14x49 feet.

Storage shed, Reed and Delaware avenue, \$3,145. Penna. RR. Co. (O), Broad Street Station. Turner Concrete Steel Co. (C), 1713 Sansom street. Iron, 1 story, 23x34 feet.

Shop, Stiles and Wakeling streets, \$15,000. Barrett Mfg. Co. (O), Bermuda and Margaret streets. A. Raymond Raff Const. Co. (C), 1635 Thompson street. Brick, 1 story, 108x65 feet, slag roof.

Shop, Stiles and Wakeling streets, \$18,000. Barrett Mfg. Co. (O), Bermuda and Margaret streets. A. R. Raff Const. Co. (C), 1635 Thompson street. Brick, 1 story, 65x121 feet, slag roof.

Shop, Stiles and Wakeling streets, \$10,000. Barrett Mfg. Co. (O), Bermuda and Margaret streets. A. R. Raff Const. Co. (C), 1635 Thompson street. Brick, 1 story, 69x65 feet, slag roof.

Storage building, Richmond and Tioga sts., \$300. Girard Smelting Co. (O and C), on premises. Brick, 1 story, 30x40 feet, slag roof.

Store, 1525 Chestnut street, \$80,000. A. Pomerantz (O), 34-36 South Fifteenth street. Warren-Moore Co. (C), Commercial Trust Building. Brick, 6 stories, 22x22 feet, slag roof.

Car inspector's shop, Front and Washington avenue, \$1,712. Penna. RR. Co. (O), Broad Street Station. Turner Concrete Steel Co. (C), 1713 Sansom street. Iron and frame, 1 story, 10x221 feet.

Dwellings (4), Broad street, south of Sixty-eighth avenue, \$20,000. Wm. O. Mahon (O and C), 67188 North Broad street. Brick and stone, 3 stories, 35x33 feet, slate roof, hot water heating.

Dwellings (9), east side of Fifth street, south of Olney avenue, \$45,000. J. Shenkman (O and C), 225 Duncannon avenue. Brick, 2 stories, 15x51 feet, slag roof, hot water heating.

Garage, east side of Fifth street, south of Olney avenue, \$2,400. J. Shenkman (O and C), 225 Duncannon street. Brick, 1 story, 10x19 feet, slag roof.

Garage, Arch and Felton streets, \$8,000. Mrs. Annie Smith (O), 327 South Sixth street. L. Kaplan (C), 518 Spruce street. Brick, 1 story, 21x110 feet, slag roof.

School, Seventh and Lehigh avenue, \$332,815. Board of Education (O), Nineteenth above Chestnut street. Thos. Reilly (C), 1616 Thompson street. Brick, 3 stories, 40x62 feet; brick, 2 stories, 65x153 feet; brick, 1 story, 75x95 feet.

\$3,145. Fred Pearson Co. (O), Manayunk, Philadelphia. H. R. Heinicke, Inc. (C), Drexel Building. Brick chimney, 125 feet high.

Storage, 148 North Third street, \$315. Fourth Blucher Building Asso. (O), 526 N.

Sixth street. Anton Joeger (C), 610 North Third street. Low pressure heating plant.

Loft building, 661-69 North Broad street, \$130,000. Kahn and Greenburg (O and C), Morris Building. Brick, 3 stories, 122x122 feet.

Apartment house, Sixteenth and Spruce sts., \$4,600,000. Southwark Realty Co. (O and C), Morris Building. Brick, 15 stories, 45x45 feet, addition.

Store, 984 North Second street, \$1,800. Rosenblatt & Blum Bros. (O), on premises. Platt and Mengart (C), 611 Fernon street. New plate glass windows, tile work.

Dwelling, 2262 North Sixteenth street, \$500. Lyceum Bldg. Asso. (O), 729 Walnut street. Harry G. Evans (C), 1504 Marvine street. Repairs.

Store, 519 Cypress street, \$600. Louis Kaplan (O and C), 518 Spruce street. Brick, 2 stories, addition, slag roof, 16x45 feet.

Dwelling, Limekiln pike, south of Washington lane, \$84,000. Jas. B. Castle, 1537 Real Estate Building (O and C). Stone and brick, 2 stories, tile roof, hot water heating.

Garages (14), Limekiln pike, south of Washington lane, \$14,000. Jas. B. Castle (O and C), Real Estate Trust Building. Stone, 1 story, 12x25 feet, tile roof.

Store, 619 Market street, \$4,000. F. Fitzgerald (O), Lansdowne. Chas. McCaul Co. (C), 1715 Sansom street. New flush bulks, interior alterations, elevator shaft.

Stable, 1423-25 South Eighth street, \$600. Frank Donato (O and C), on premises. Alterations.

Store, 518 Market street, \$2,000. Henry F. Michell Co. (O), on premises. E. C. Hawn (C), 239 South Hutchinson street. Elevator shaft, 6 stories, skylights.

Garage, 1707-9-11 North Twelfth street, \$1,650. Mr. F. Clark (O and C), on premises. Steam heating system.

Lodging house, 824 Race street, \$6,000. Abraham Goldberg (O), 824 Race street. Frank Kaiser (C), 1522 South Sixth street. Addition, 33 stories, 33x45 feet, slag roof.

Store, 1526 Chestnut street, \$4,600. Weightman Estate (O), 1524 Chestnut street. James S. Talley (C), 1931 Market street. New show windows.

Fire station, Oak lane, west of Twelfth street, \$21,000. City of Philadelphia (O), Citl Hall, Philadelphia. E. Clifford Durell (C), 1713 North Twenty-fourth street. Addition, 2 stories, 31x26 feet, slag roof.

Sunday school building, Greene street and School lane. Second Church of Christ Scientist (O). Jacob Myer & Sons Co. (C), Witherpoon Building. Brick, 2 stories, 74x74 feet, slag roof, steam heating.

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And therefore is
A goodly thing to try.

—Ex.

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

Alterations and Additions

Office building, Germantown avenue and Haines street, \$4,000. City of Philadelphia (O), City Hall, Philadelphia. E. Clifford Durell (C), 1713 North Twenty-fourth street. Alterations.

Chimney, Mallory, south of Wilde street,

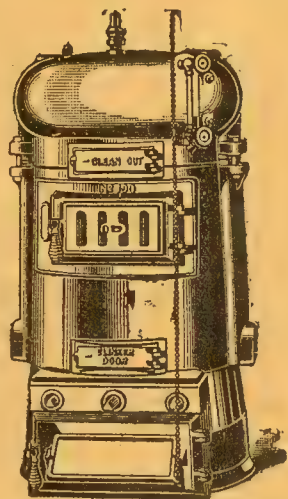
Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO.,
Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

- Artesian Wells.**
 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
 Ridpath & Potter Co.....Bourse Bldg., Phila.
 John B. Rulon.....1355 Colwyn st., Phila.
- Artists' and Architects' Supplies.**
 Chas. H. Robbins.....125 S. 11th st., Phila.
 Warren-Knight Co.....136 N. 12th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.
- Blue Prints.**
 Chas. H. Robbins.....125 S. 11th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.
- Blue Print Paper.**
 Chas. H. Robbins.....125 S. 11th st., Phila.
- Brick (Face, Etc.).**
 O. W. Ketcham.....Builders' Exchange, Phila
- Brick Renovating.**
 Adolph Christensen.....1433 Brown st., Phila.
- Builders.**
 Graham-Campion Co.....Heed Bldg., Phila.
 Hogg Construction Co., Inc.,
 1634 Sansom st., Phila.
 Mitchell Bros.....2125 Race st., Phila.
 Pomeroy Const. Co.....1609 Ranstead st., Phila.
- Builders' Supplies.**
 P. H. Fairlamb Co.....115 S. 30th st., Phila.
 David France Co.,
 Tasker st. wharf, Delaware River, Phila.
- Cement.**
 P. H. Fairlamb Co.....115 S. 30th st., Phila.
 David France Co.,
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 Samuel H. French & Co.,
 4th and Callowhill sts., Phila.
 Lehigh Portland Cement Co..Penna. Bldg., Phila.
- Cement Colors.**
 Samuel H. French & Co...4th and Callowhill sts.
- Columns (Metal).**
 Pearce Fireproof Co.....1345 Arch st., Phila.
- Composition Flooring.**
 Philadelphia Mineral Flooring Co.,
 5632 Summer st., Phila.
 The Marbleoid Co.....Land Title Bldg., Phila.
- Dampproofing.**
 The Barrett Co.....New York City and Phila.
- Door Hangers.**
 Grant Pulley and Hardware Co.,
 3 W. 29th st., N. Y., & Land Title Bldg., Phila.
- Drawing Materials.**
 Charles H. Robbins.....125 S. 11th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.
- Electrical Specialties.**
 Large-Dail Mfg. Co.....606 Cherry st., Phila.
- Electrical Construction.**
 Baird-Osterhout Construction Co.,
 1620 Chancellor st., Phila.
- Electric Lighting, Power and Appliances.**
 Philadelphia Electric Co.,
 10th and Chestnut sts., Phila.
- Elevators.**
 A. B. See Electric Elevator Co.,
 Land Title Bldg., Phila.
- Engineers' Supplies.**
 Charles H. Robbins.....125 S. 11th st., Phila.
 Warren-Knight Co.....136 N. 12th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.
- Fences.**
 Anchor Post Iron Works,
 Real Estate Trust Bldg., Phila.
- Fire Alarm Systems.**
 Rope Fire Escape Co.....1602 Market st., Phila.
- Fire Doors.**
 Merchant & Evans Co.,
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- Fire Escapes.**
 Rope Fire Escape Co.....1602 Market st., Phila.
- Fire Gongs.**
 Rope Fire Escape Co.....1602 Market st., Phila.
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 Consolidated Expanded Metal Co.,
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 Pearce Fireproof Co.....1345 Arch st., Phila.
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 Widener Bldg., Phila.
- Furnaces.**
 Abram Cox Stove Co.,
 American and Dauphin sts., Phila.
- Furnaces and Ranges.**
 Borden Stove Co.....118 N. 2d st., Phila.
 Abram Cox Stove Co.,
 American and Dauphin sts., Phila.
 Henry M. Miller.....46-48-50 N. 2d st., Phila.
 Richardson and Boynton Co..1342 Arch st., Phila.
- Gas and Gas Appliances.**
 United Gas Improvement Co.,
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- Granite.**
 Holmesburg Granite Co.,
 Commercial Trust Bldg., Phila.
- Heating Contractors.**
 Bowers Bros. & Co.1629 Ludlow st., Phila.
- Heating Boilers.**
 Richardson and Boynton Co..1342 Arch st., Phila.
 H. B. Smith..S. W. Sor. 17th and Arch sts., Phila.
- Insurance.**
 Harris J. Latta.....Penna. Bldg., Phila.
- Lockers.**
 Edward Darby & Sons Co., Inc.,
 233 Arch st., Phila.
- Lumber.**
 Howard Ketcham....3d and Girard ave., Phila.
 James E. Tague & Co.,
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 Consolidated Expanded Metal Co.,
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 Pearce Fireproof Co.....1345 Arch st., Phila.
- Mill Supplies.**
 The Fairbanks Co.....7th and Arch sts., Phila.
- Mortar Colors.**
 Samuel H. French & Co.,
 4th and Callowhill sts., Phila.
- Painters.**
 C. Albert Kuehne.....11 S. 16th st., Phila.
- Paints and Varnishes.**
 Felton, Sibley & Co.....136 N. 4th st., Phila.
 Samuel H. French & Co..4th and Callowhill sts.
 Eugene E. Nice.....268 S. 2nd st., Phila.
- Pipe Fittings and Valves.**
 The Fairbanks Co.....7th and Arch sts., Phila.
- Plaster.**
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- Plumbing Fixtures.**
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 James A. Vogel Co.....Wilmington, Del.
- Preservatives (Wood and Concrete).**
 The Barrett Co.....New York City and Phila.
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- Radiators.**
 H. B. Smith Co.....1225 Arch st., Phila.
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 Borden Stove Co.....118 N. 2d st., Phila.
 Henry M. Miller.....46-48-50 N. 2d st., Phila.
- Refrigerators.**
 Borden Stove Co.....118 N. 2d st., Phila.
 Henry M. Miller.....46-48-50 N. 2d st., Phila.
- Roofing.**
 The Barrett Co.....New York City and Phila.
- Roofing Slate.**
 C. F. Shellenberger...Builders' Exchange, Phila.
- Roofing Tile.**
 O. W. Ketcham.....Builders' Exchange, Phila.
 C. F. Shellenberger...Builders' Exchange, Phila.
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 Grant Pulley and Hardware Co.,
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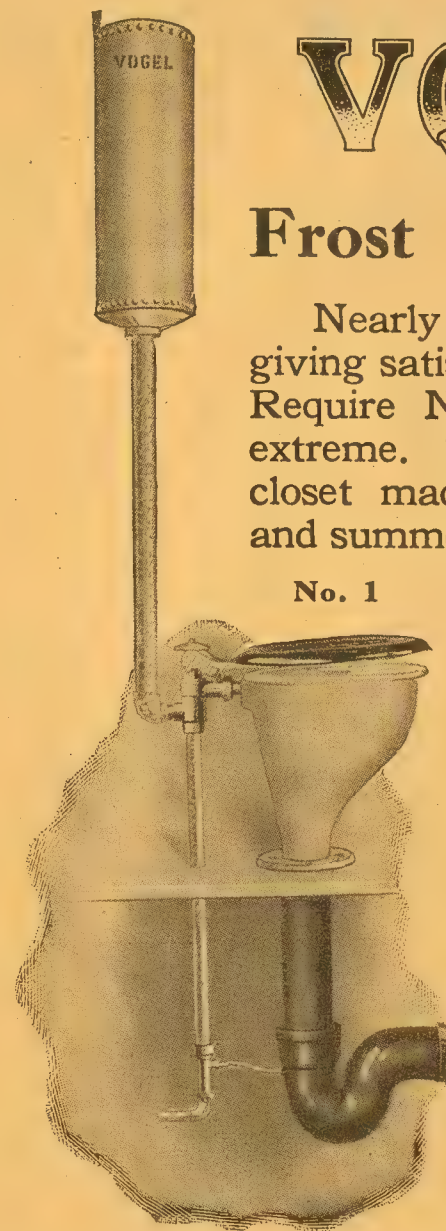
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Vol. XXXII., No. 3.

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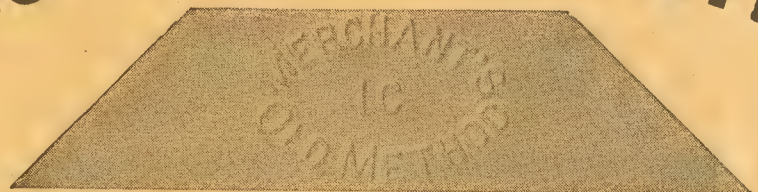
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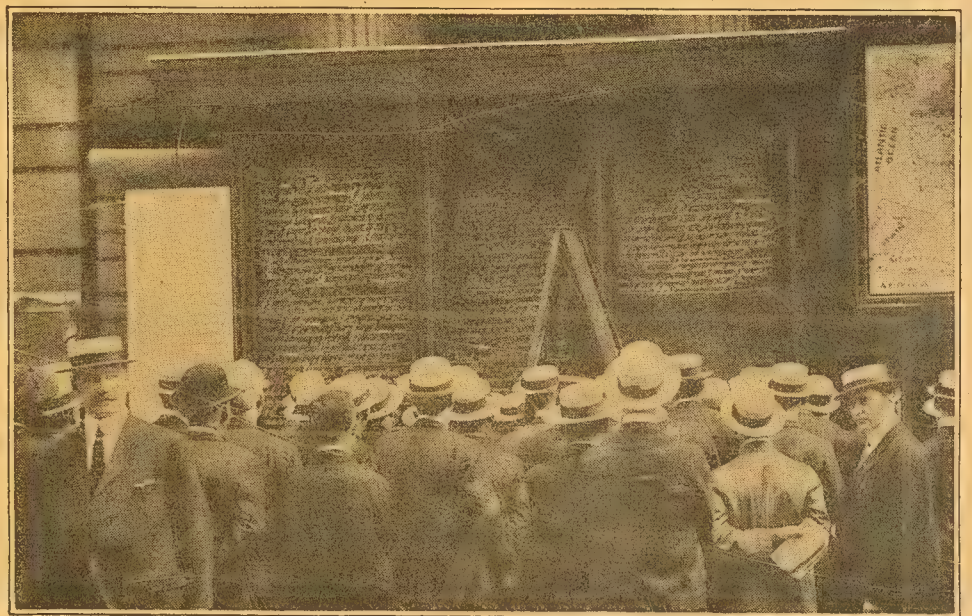
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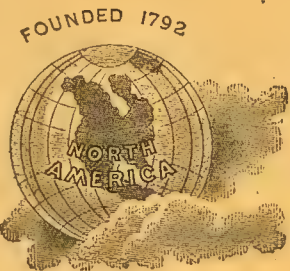
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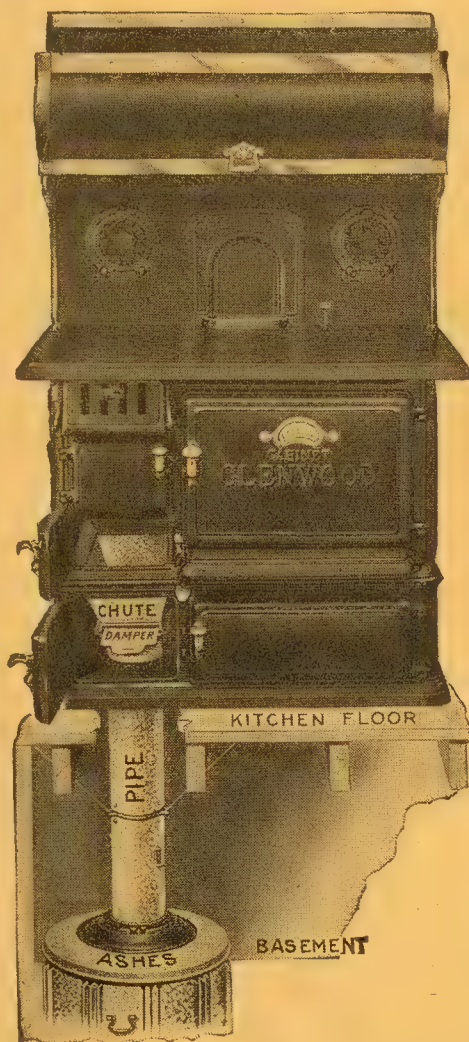
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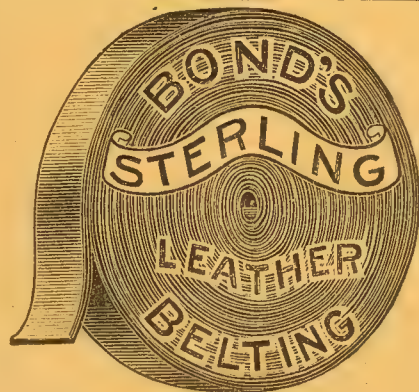
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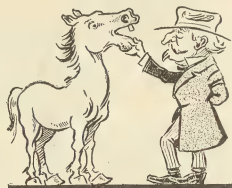
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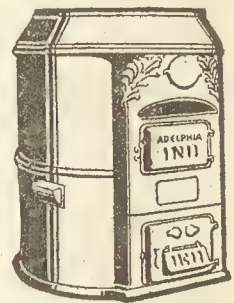
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Catholic Home for Destitute Children, 29th and Allegheny Avenue, E. F. Durang & Son, Architects.
Second Regiment Armory, Broad and Susquehanna Avenue, Philadelphia, Philip H. Johnson, Architect.
St. Nathaniel P. E. Church, Allegheny Avenue and E Street, Churchman, Molitor & Thomas, Architects.
St. Charles Borromeo Dormitory Building, Overbrook, Paul Monaghan, Architect.
Wanamaker Memorial Belfry Tower, St. James the Less Cemetery, John T. Windrim, Architect.

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Philadelphia, December 27, 1916

RESOURCES

Loans and Discounts	\$35,227,081.02
Liability Under Letters of Credit	613,064.57
Due from Banks	9,704,105.81
Cash and Reserve	8,296,397.39
Exchanges for Clearing House	2,082,486.02

\$55,923,134.81

LIABILITIES

Capital	\$1,000,000.00
Surplus and Net Profits	3,755,204.43
Circulation	235,000.00
Letters of Credit	613,064.57
Deposits	50,319,865.81

\$55,923,134.81

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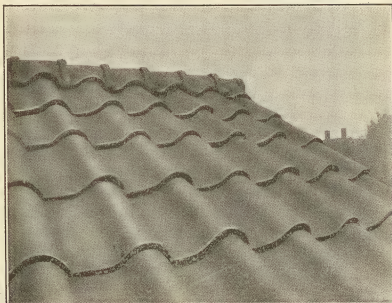
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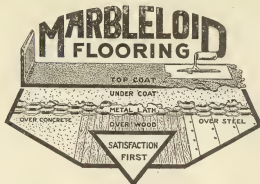
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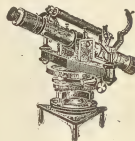
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BUILDERS' GUIDE

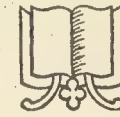
Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 3

PHILADELPHIA
January 17, 1917



As The Editor Sees It



NINETEEN HUNDRED AND SIXTEEN goes down into the annals of building a year of mighty achievement. According to statistics, compiled by the *New York Real Estate Record*, there was expended upon new construction during the twelve months that ended December 31st, the enormous total of \$1,356,000,000, an increase over the total for 1915 of \$415,910,666.

Comparative statistics of building and engineering operations in the States north of the Ohio and east of the Missouri rivers, viz.: New York, New England, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and Eastern Kansas, as compiled by the F. W. Dodge Company, show the following returns: Contracts awarded in 1916—\$1,356,989, Contracts awarded in 1916—\$1,356,989,397.

Contracts awarded in 1915—\$940,089,334.

Contracts awarded in 1914—\$720,241,300.

Contracts awarded in 1913—\$857,698,500.

Contracts awarded in 1912—\$868,103,000.

Contracts awarded in 1911—\$777,456,313.

Contracts awarded in 1910—\$805,700,399.

Comparative statistics of building and engineering operations in New York State and northern New Jersey, as compiled by the same authority, shows:

Contracts awarded in 1916—\$283,659,500.

Contracts awarded in 1915—\$169,794,734.

Contracts awarded in 1914—\$129,204,500.

Contracts awarded in 1913—\$261,007,500.

Contracts awarded in 1912—\$232,167,000.

Contracts awarded in 1911—\$227,912,500.

Contracts awarded in 1910—\$254,819,000.

* * *

HERE in Philadelphia, official figures compiled by William Gamble, statistician of the Bureau of Building Inspection, give the estimated cost of new construction as \$49,896,570—an expenditure involving 15,613 separate operations and for which were issued by the bureau 8,838 permits.

In 1915 the total estimated cost was \$39,441,225 and the number of operations 17,723. The one year which in the department records exhibits a reasonable approximation to the record-breaking total for 1916, is 1909, which recorded a total expenditure of \$42,881,270.

Mr. Gamble is moved to devote special remark to the circumstance that an outstanding feature of the year's activity in building was the quite unparalleled number of two-story dwellings erected. There were 7,204 two-story houses built within the year at a cost of \$17,766,375.

The greatest activity of the year, however, was reflected in the unusually large number of manufacturing buildings demanded to meet conditions growing out of the war abroad. Mr. Gamble estimates that not less than \$25,000,000 went into this one type of construction during the past twelve months.

* * *

IT should be borne in mind that these figures rest on new construction wholly confined within the boundaries of Philadelphia. Several millions of dollars in addition to the total record-

ed by Mr. Gamble were expended here in Philadelphia during the year for new construction within a radius of from 50 to 100 miles, work planned by Philadelphians, paid for by Philadelphia capital and handled by Philadelphia builders.

On another page of this, the Annual Building Statistics Number of THE GUIDE, will be found an interesting table, compiled from the official records, showing the number of permits issued in Philadelphia, the character of construction for which they were issued and the estimated total of cost for each class.

* * *

BUILDING and labor costs advanced beyond all previous records during the year. The *Real Estate Record* observes, in this connection:

"A building that could have been built for \$6,000 five years ago, will cost, say, about \$10,000 at existing prices for materials, labor, etc., and five years from now it may perhaps be re-produced for \$6,000. While sixty per cent. of the current cost might be carried as a loan, the loan would be for a very short term, and lenders would insist upon a heavy reduction of the principal at the renewal of the mortgage. During a five-year period the difference between the present and the expected future cost of production would represent a depreciation of \$4,000 in the value of the property, or \$800 a year. This would be eight per cent. per annum, in addition to the normal structural depreciation. Investment building may not be successfully undertaken on this basis, and investment buildings may, therefore, be limited until the cost of building recedes or until rents advance sufficiently to offset the prospective loss due to the abnormal cost of construction."

A builder remarked, only the other day, that a figure of \$6,500 for the steel

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**BLUE
PRINTS**

and fireproofing in a building 25x75 feet, submitted in November, 1912, is resubmitted to-day at \$13,000. The indications are that still sharper advances will ensue in all lines under the continued pressure of foreign and home demand.

* * *

THE *New York Times* of Sunday last devotes a lengthy editorial to a discussion of the present method of planning and awarding federal buildings. Whether we elect to concur in all of the views of the writer or not, it is, in any event, a healthy sign of growing popular interest in the subject that a newspaper such as *The Times*, should deem it of sufficient interest to single it out for discussion:

"The latest annual report of the Supervising Architect of the Treasury Department," comments *The Times*, "showed that on June 30, 1916, his office had yet to build 269 public buildings authorized by Congress. Not before 1920, at the earliest, could these be completed. Though the work of that office is three years behind, the passion of Congress to decorate hamlets with 'Government monuments' will give it no breathing space. In July, careless of the President's warnings, the House Public Buildings Committee brought in the 'Omnibus' bill, and then swelled it with appropriations for Federal palaces in divers hamlets. In December a new 'Omnibus' bill, containing all but one or two of the authorizations in the July bills and adding more, was brought in.

The leaders of the Pork Phalanx, alarmed by the general disgust at the conglomerate of extravagance which they have dared to make in the presence of a monstrous deficit, try to juggle the \$39,000,000 of the bill into \$28,000,000. Whatever the sum, the method by which the bill has been put together is a continuation of an abuse which the state of the public finances makes intolerable, which public opinion should have ended long ago. Mr. Wilson is going to stop it. Some board or commission will have to be established to pass soberly, without political or local bias, expertly on the merits of each project."

* * *

THE day of public buildings as bids for votes in Congress districts, of appropriations for patronage or division of the spoils, is about ended. There is another interest and another issue in the matter. It is not merely a financial question. Government buildings should be designed by experts. They should be appropriate to the site chosen and to the place in which they stand. A Post Office in Deaf Smith County should not be a reduction of a grandiose Post Office in a great city. Some of the photographs of cross-roads

Government palaces look grotesquely inappropriate, a hybrid of tomb and temple. The maintenance of a certain type, a standardization of plan, is favored, probably, by the majority of architects, if a profession may be mentioned that is regarded with distrust or suspicion by Congress and officialdom in general. Officialdom's notion of type and standardization seems to be to design a building, and repeat the design everywhere.

"It is the present American fashion to admire France. She deserves admiration not merely for her moral qualities, apparently undiscovered by most Americans before the war, but for her sense of proportions, her love of beauty, her luminous intelligence, her application of it, her sturdy and ordered plan. What would France think of the Federal building system? What would she think of a Government that, having established, late and reluctantly, a Commission of Fine Arts, rejected its advice, and proposed to disfigure Washington, spoil its vistas, injure irreparably its park system, blot its whole plan of harmonious development, by the erection of a power house of heaven-grazing chimneys on the Potomac waterfront? And what shudders run through our 'plain' Congressmen at the suggestion of a Government Bureau of Fine Arts."

* * *

THE office of the Supervising Architect of the Treasury, with 269 buildings yet to build and the pork patriots yearning to make its future days miserable with 400-odd more, deserves sympathy rather than criticism, it may be thought. No doubt it is doing its best and nobody wants to boot it. Still, is it unkind to say that the Supervising Architect is a lawyer, that his boss, the Assistant Secretary of the Treasury, who has charge of public buildings is or was a newspaper writer? However industrious or capable these gentlemen are—and they are not at fault, but the system is—nothing of expert direction or suggestion can be expected from them. The work of the Supervising Architect's office necessarily falls into the hands of draftsmen, excellent draftsmen, no doubt, amateurs of the everlasting official blueprint, but nothing more."

* * *

ARCHITECTURE is the business of architects. Government architecture should be the business of Government architects. A body of architects, to whom a builder and engineer might be added, should ponder the question of public buildings, develop a type, if a type be desirable, insure that every public building, its necessity having been established, should fit its purpose and site, be honestly constructed,

be beautiful. The Supervising Architect's office has more than it can do, and is not fitted to do it well. A commission to study the whole subject thoroughly would furnish a definite and detailed plan. It is enough to point out that the excision of 'pork' is but the condition precedent of a sound and civilized system of Federal buildings. 'It is to our discredit as a nation,' says Mr. Roosevelt, no mere 'dreamer' or 'literary fellow,' 'that our Governmental buildings should so frequently be monuments of sordid ugliness.' * * * Congress, acting on its own initiative, is as unfit to prescribe conditions for the erection of public buildings as it would be to prescribe conditions for a General or an Admiral; for a Grant or a Sheridan, a Farragut or a Dewey. It needs leadership in one case just as much as in the other."

* * *

PRODUCTION of pig iron during 1916 was close to 40,000,000 tons, an increase of almost 10,000,000 tons over 1915. Had the railroads been able to do their part in handling freight, several hundred thousand tons would have been added to the 1916 production. In December the pig iron production was 3,208,382 tons as against 3,317,805 tons in November.

A new precedent was established during 1916 in the establishment of new steel mill capacity. During the year there were 103 open-hearth furnaces completed with an output of 4,205 tons a year. New steel making capacity with the opening of 1917 shows a total of seventy-two open-hearth furnaces, eleven converters for duplexing, and two bessemer steel plants which will make an annual output of 5,015,000 tons increase. Five new blast furnaces were completed during 1917 with a capacity of 800,000 tons, and the year opened with twenty-five under construction with a capacity of 4,100,000 tons annually.

Eastern Pennsylvania plate mills have been asked to bid on 150,000 tons of ship plates. One firm has been figuring on 75,000 to 100,000 tons. Pittsburgh mills have all the tonnage they can handle for the year. Quotations on plate run from 3.60c at convenience of mill to 4c and 5c, depending on size of order and time of shipment. Some Eastern mills have asked as high as 6c for ship plates.

Rail buying for 1918 delivery continues. Since the first of the year the Southern Pacific has closed with the Steel Corporation's plant at Ensley, Ala., for 55,000 tons, and the Chicago & Alton for 8,000 tons with the same mill. The Carnegie Steel Company will roll 25,000 tons for the Erie Railroad. The Baltimore & Ohio has contracted for 2,000 cars, dividing the order with the Pullman Company and the Standard

Steel Car Company. The French State Railways have inquiries out for 10,000 cars. The Russian State Railways seem to be unable to close for the remainder of the cars which were scheduled last year, and of which only a part have been contracted for.

Like rail mills, makers of switches

and frogs are accepting orders for delivery during 1918, and 40,000 tons of track equipment have been sold for delivery one year hence. France has about settled to take spikes and track bolts with which to build several hundred miles of railroads.

dent for many years, to establish a fitting memorial to the artist. The memorial may take the form of scholarships for needy art students.

MODERNIZED.

I remember, I remember,
The house where I was born;
The little windows where the sun
Came peeping in at morn.
You'd hardly know the old place now,
For dad is up-to-date,
And the farm is scientific
From the back lot to the gate.

EDITORIAL NOTES

Among the latest steel building orders are 1,250 tons for a mill at Ashland, Ky., for the Ashland Mining Company; 1,000 tons for a foundry at Schenectady for the General Electric Company, and about 1,000 tons for a foundry at Canton, Ohio; a factory trust company at Dayton, Ohio, and a factory for the American Sugar Company. A contract for a pier at Philadelphia requiring 900 tons of steel has been placed also.

* * *

Moving pictures showing typical American manufacturing processes, welfare work in industrial institutions, and other details of American economic life are to be exhibited in South America, under the auspices of the Bureau of Foreign and Domestic Commerce. United States Commercial Attaches in South America are to make arrangements for having these films shown in the motion picture houses of cities where they are stationed. It is hoped that such exhibitions will be preliminary to an extensive campaign by American manufacturers in South America. Already plans for such a campaign are being made.

* * *

Steel merchant vessels building or under contract to be built in privately owned American shipyards on Dec. 1, 1916, numbered 400, of 1,428,003 gross tons. On Dec. 1, 1915, they totaled 202 vessels, of 761,511 tons, or about half of this year's total.

* * *

A survey of the proposed Darby elevated line has been begun by twenty engineers connected with the city transit department. Director Twining hopes to have plans for the line ready to present to the Public Service Commission for approval during February. The Darby line will be about six miles long. All stations will be upon the building line and entrance will be had through doors similar to those opening upon a store, so that the sidewalks will be left unobstructed by the stations.

* * *

Stockholders of Harrison Brothers &

Co., manufacturers of paints and chemicals, have been notified that \$5,700,000 cash have been offered for the Harrison plants by the E. I. du Pont de Nemours Company, and the du Pont company will assume all outstanding indebtedness. Acceptance of the offer is urged upon stockholders in a statement signed by R. S. Hubbard, president of the Harrison company. In financial circles the purchase offer is regarded as indicating that the du Pont company foresees a wide development in American manufacture of chemicals at the close of the war, entirely apart from the manufacture of explosives.

* * *

The Master House Painters' and Decorators' Association of Pennsylvania closed its twenty-ninth annual convention with the election of officers and the selection of the place for next year's session. The delegates have been meeting daily at the Bellevue-Stratford since Tuesday. The necessity for more practical instruction and less theory in trade and technical schools was emphasized by P. J. Byrne, of Pittsburgh, who added that more stress should be laid on fundamentals. "A boy who learns how to paint a radiator as it should be done may develop into a great scenic artist," he said. "But no one can become a real artist unless he knows how to properly paint a radiator." Moving pictures and lectures on trade topics occupied the attention of the delegates at the final business session.

* * *

Henry Thouron's great mural painting for the right nave of the Philadelphia Cathedral, which he executed in Rome just before his death in 1915 has been put in its place, opposite the companion picture in the left nave of the edifice, which was painted by Thouron in this city, in 1911. The first picture, depicting the whole world saluting the mother of Christ, has been called the finest mural painting in the United States. Plans are being considered by the fellowship of the Academy of the Fine Arts, of which Thouron was presi-

The house and barn are lighted
With bright acetylene,
The engine in the laundry
Is run by gasoline.
We have silos, we have autos,
We have dynamos and things;
A telephone for gossip,
And a phonograph that sings.

The hired man has left us,
We miss his homely face;
A lot of college graduates
Are working in his place.
There's an engineer and fireman,
A chauffeur and a vet.,
Electrician and mechanic—
Oh, the farm's run right, you bet.

The little window where the sun
Came peeping in at morn
Now brightens up a bathroom
That cost a car of corn.
Our milkmaid is pneumatic;
And she's sanitary too;
Dad gets fifteen cents a quart
For milk that once brought two.
—Exchange.

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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COMING TRADE CONVENTIONS.

—Chicago Cement Show will be held in the Coliseum, Chicago, from Wednesday, February 7, to Thursday, February 15, 1917, inclusive.

—National Pipe and Supplies Association will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

—Retail Lumber Dealers' Association of the State of New York will hold its annual meeting at the Onondaga Hotel, Syracuse, N. Y., January 24-25, 1917.

—Pennsylvania and Atlantic Seaboard Hardware Association and the New York State Retail Hardware Association will hold their joint annual convention and exhibition in New York City February 6-9, inclusive. The headquarters will be in the Hotel Astor and the exhibition in the auditorium of Madison Square Garden. W. P. Lewis, Huntingdon, Pa., is secretary-treasurer of Pennsylvania and Atlantic Seaboard Hardware Association, and John B. Foley, Kirk Building, Syracuse, N. Y., secretary of New York State Retail Hardware Association.

—National Fire Protection Association will hold its annual meeting in Washington, D. C., May 8-10, 1917.

—National Complete Building Show will be held in the Grand Central Palace, New York City, March 5-11, 1917.

—National Builders' Supply Association will hold its annual convention at the Hotel Sherman, Chicago, February 11-12, 1917.

—Hardwood Manufacturers' Association will hold its annual meeting at the Sinton Hotel, Cincinnati, Ohio, January 30-31, 1917.

—New York State Association of Master House Painters and Decorators will hold its annual convention at Rochester, N. Y., on January 16-19, 1917.

—National Brick Makers' Association will hold its next convention at the Hotel McAlpin, Broadway and Thirty-fourth street, New York City, from March 4-11, 1917.

"CHESLEY" STOCK DOORS.

One of the most important accessories in the later day building construction is a fire-proof door.

The A. C. Chesley Company, of New York, are manufacturers of a door of the most improved kind, having a well equipped plant which enables them to manufacture at a minimum cost. They are producing the "Chesley" stock doors in standard sizes at prices much lower than it is possible to manufacture otherwise. This well established method has proved advantageous, as orders are filled at very short notice, and there is no possibility of delay. Since this door has been placed on the market it has given entire satisfaction.

The door is made of metal covered wood, having no bolts, nails, rivets or screws used in its construction. All metal used has a non-corrosive coating. It is made in designs to suit any condition, using plain panelling or glass insertions; this affords greater selection. The "Chesley" door will not fail to appeal

to the well trained and experienced in building construction, as it is a light, strong, and substantially made door of very attractive design. This door has no crude pressed work, but every part is cleanly and mechanically made.

It is the result of many years' experimenting and improving the expensive, unattractive door of the past decade to a door that suits the most particular tastes. The "Chesley" door is sold to the building trade in competition with wood doors, showing that it is within the reach of all. Catalogs will be furnished by the Philadelphia Fire Retardant Company upon request.

J. L. TYSON ELECTED BY MASTER BUILDERS.

At the annual meeting of the Master Builders' Exchange of Philadelphia, the following officers were elected: President, Jacob L. Tyson; first vice-president, O. W. Ketcham; second vice-president, Edwin E. Hollenback; third vice-president, W. Nelson Mayhew; secretary, Charles Elmer Smith, and treasurer, P. S. Smith.

The following directors were elected to take the places of those whose terms expired: Francis F. Black, C. E. Drehmann, Edgar J. Ellis, William W. Hodgson, Edwin F. Morse, C. F. Shellenberger.

PLANS TO BE EXHIBITED.

The competitive plans for the million dollar California State building for the Civic Center are to be displayed in the rooms of the Building Material Exhibit at 77 O'Farrell street, San Francisco, as soon as the jury of awards selects the winning design and plans next February.

The eight architects and architectural firms chosen among the fifty-three exhibitors at the first exhibition for having the eight best designs are working on complete plans and specifications. Their work includes working or detail drawings, as well as finely executed perspective and flat drawings of the exteriors. When their work is done the plans will be shown in the Building Material Exhibit in this city.

The management of the exhibit has arranged a programme for the coming year in order to have a feature each month for the benefit of manufacturers, architects and contractors. One week each month will be devoted to architects with exhibitions of designs and drawings of residences, apartment houses, bungalows and other structures.

A competition open to architectural draftsmen on the Pacific Coast is to be held. A jury of three leading architects will pass upon designs.

HOUSING CONDITIONS IN DETROIT.

Detroit, Mich., owing to the rapid growth of the city, is struggling with dangerously unsanitary conditions in some of its poorer residence quarters. The city, the state, the university of Michigan and the Michigan Chapter of the American Institute of Archi-

tecs will co-operate in the careful preparation of city and state building codes to remedy the conditions. It is asserted that the total building operations in Detroit in 1917 will exceed \$50,000,000.

HOME OF THE FUTURE.

Discussing the trend of modern architecture, Anton Scherrer, in an address recently before members of the Indianapolis Real Estate Board, declared there are three essentials necessary in designing a modern home.

"The trend of modern home building," said Mr. Scherrer, "embodies three requisites—utility, economy and beauty—all being of the same value.

"We should not build for utility alone. Economy should not be confounded with cheapness. We should look first at the actual cost of the building instead of its initial cost. Cheap materials and a high maintenance expense will make a cheaply built building costly. Modern architecture demands that only materials that have stood the test is used in home building.

"In designing the home of the future, we should get back to the real fundamentals that concern themselves with proper proportions. We can not say what style of architecture will be utilized in our plans of the future—probably both of the recognized styles, although maybe in an entirely different manner than now shown."

WOOD PRESERVATION.

In his chapter on wood preservation in his work on "Lumber and Its Uses," R. S. Kellogg says that no hard and fast line can be drawn between woods which are durable and those which are not. Timber of natural durable woods which is not seasoned before it is used or which contains a large amount of sapwood may rot quickly while properly handled timber of less durable woods may last a long time.

The decay of timber is caused by minute organisms called bacteria and fungi. It is prevented by treating the timber with anti-septics which are poisonous to bacteria and fungi. Practical considerations make only a few such substances suitable for commercial use. A first essential of a good wood preservative is that it shall not dissolve out when the wood gets wet or is placed in water. For this purpose the best material thus far discovered is creosote.

Paint lengthens the life of wood because it keeps out the moisture and closes openings through which fungi might enter; but it is essential that wood be well seasoned before it is painted.

There is abundant evidence of the long life of creosoted wood. Even in this country there are many examples of poles and other timbers creosoted 20, and even 30, years ago which today are apparently as sound as when first set in the ground. In Europe where wood preservation is an older industry the results are still more marked.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store and Dwelling (alt.), 1603 Walnut street, Philadelphia. Architect, private plans. Owner, H. Kay Messick, northeast corner of Sixteenth and Chestnut streets. Consists of new Caen stone front, new bulks, mill work, plastering, etc., 4 stories (interior decorating reserved). Owner will take bids in a few days.

Subway Stations (5), various locations, contracts Nos. 201-202-203, \$7,000,000. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of William S. Twining, Director, Bourse Building, Philadelphia. Excavating, heavy construction underpinning, reinforced concrete, waterproofing, dampproofing, skylights, safety treads, iron stairs. Owners taking bids, due February 6th, at noon. Keystone State Const. Co., Pennsylvania Building, Philadelphia, is figuring.

Storage House (add.), Thirty-eighth and Powelton avenue, Philadelphia. Architects, Sheen & Gill, Heed Building, Philadelphia. Owners, Powelton Storage House, on premises. Brick, slow burning, 5 stories, 36x70 feet, slag roof, pine floors. Owners taking bids, due January 15th. The following are figuring: Metzger & Fisher, Denckla Building; Thomas C. Trafford, 1613 Sanson street; Stacy Reeves & Sons, 2011 Market street; H. E. Grau Co., 1707 Sanson street; Sheen & Gill, Heed Building, all of Philadelphia.

Apartment House, Philadelphia. Architect, J. Warren Myers, 1701 Chestnut street, Philadelphia. Owner's name withheld. Brick, steel, stone and terra cotta trim, 16 stories, 45x135 feet, slag roof, hardwood and pine floors, steam heating, electric lighting, metal casements, waterproofing, fire doors, tile and marble work, 3 elevators, cabinet work, terrazzo work. Architect has received sub-bids.

Residences (10), Twenty-ninth and Allegheny avenue, Philadelphia. Architect, private plans. Owner, Morris L. Miller, Commonwealth Building, Philadelphia. Brick, 2 stories, 15x46 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking sub-bids.

Residences (86), Chester avenue, Sixtieth and Sixty-first streets. Architect, Frank V. Greenstein, 715 Empire Building, Philadelphia. Owner, James Egnal, Sixty-first and Regent streets, Philadelphia. Brick, 2 stories, 16x57 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress. Owner will take sub-bids in one week.

Apartment House (alt. and add.), 1006 S. Nineteenth street, Philadelphia. Architect, C. Henry Wilson, 2d, 1931 North Twenty-second street, Philadelphia. Owner, Peter Lewis, 719 South Smedley street, Philadelphia. Consists of general remodeling of present 3-story building. Additional story, 1 story, 10x64 feet, new addition, 4 stories, 42x16 feet, slag roof, hot water heating, combination fixtures, hardwood floors, tile work, cement work, (1) passenger elevator, (4) bathrooms, fire escapes, leaded glass. Owner taking bids, due January 16th. Ketchum & McQuade, 1029 Brown street; J. F. Trent, 2051 Master street, and Robert West, 1508 Lombard street, are figuring.

Cigar Factory (alt. and add.), 2115 South Eighth street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia.

Owners, Emze Cigar Co., on premises. Consists of general exterior and interior alterations, addition, 1 story, brick, 44x30 feet, slag roof, electric lighting. Architects taking approximate bids, due January 18th. Lam Building Co., 1001 Wood street, is figuring.

Store and Dwelling (alt. and add.), and Garage, southwest corner Ninth and South sts. Architect, Julius J. Anderson, 736 Drexel Building, Philadelphia. Owner, Henry Jacoby, on premises. Brick, 3 stories; garage, 1 story, 23x18 feet, slag roof, pine, parquet floors, cement and mineral floors, combination lighting, metal lath, tile and marble work, metal window guards. Owners taking bids, due January 18th. Smith-Hardican Co., 1606 Cherry street, and Lam Building Co. are figuring.

Tool House, Twelfth street and Glenwood avenue, Philadelphia. Architects, Maintenance of Way Dept., Penna. RR. Co., Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Hollow tile, 1 story, 16x30 feet, asphalt shingle roof, plank floors. Owners taking bids, due January 19th, at 10 A. M. The following are figuring: Armstrong & Latta, Land Title Building; Lincoln H. Smith, Hale Building; E. E. Hollenback, Fifteenth and Race streets; Chas. McCaul Co., 1713 Sanson street; Bailey-Lush Co., 201 N. Broad street; Monaghan & Loe, 3016 Chestnut street; Brann & Stuart, Commercial Trust Building; A. L. Carhart, Hale Building; John N. Gill & Co., Heed Building; Guy Croyle, Merion, Pa.; John V. Speth & Co., 1714 Sanson street.

Store Building, 331 South street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, name withheld. Brick, 4 stories, 20x156 feet, slag roof, steam heating, electric lighting, electric freight elevator, parquet floors, tile and marble work, metal lath and ceilings, skylights. Plans about completed. Architect will take approximate bids January 15th.

Sales Building, 1307 South Sixth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Smith, on premises. Brick and stone, 1 story, 30x27 feet, and 15x50 feet, slag roof, electric lighting, marble work, skylights, metal work, wrought iron work. Plans completed. Owner ready for bids.

Store (alt.), 34 North Fifth street, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Commercial Photo & Engraving Co., Tenth and Arch streets. Consists of new front and interior alterations, 3 stories, metal lath, fire doors, tile work, pine and cement floors, millwork, office partitions (steam heating, electric work and gas fitting reserved). Owners have received bids.

Garage and Service Station, northeast corner Watts and Cambridge streets. Architect, Le Roy Rothschild, Bulletin Building, Philadelphia. Owner, Murray White, Morris Building, Philadelphia. Brick, 2 stories, 48x94 feet, slag roof, steam heating, cement, oak or maple floors, electric lighting, bulk windows, hollow metal skylights (electric fixtures and elevator reserved). Owner taking bids, due as soon as possible. J. R. Jackson, Perry Building, is figuring, in addition to those previously reported.

Store Building (alt. and add.), 710 Passunk avenue, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Harry Axlorod, 710 Passunk avenue, Philadelphia. Consists of alterations to present 3-story building and new addition, 2 stories, 40x24 feet, slag roof, steam heating, combination lighting, yellow pine floors, metal lath, steel beams. Plans about completed. Owner will be ready for bids in about one week.

Factory Building, southwest corner Philip and Wharton streets, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin sts., Philadelphia. Owners, M. Platt & Co., 1526 E. Moyamensing avenue, Philadelphia. Brick, slow burning, 2 stories, 40x90 feet, slag roof, electric lighting, hand elevator, concrete and wood floors, dry-kin room, smoke stack, brick, 50 feet high. Plans about completed. Owners will take bids in about one week.

Garage, 1509-1511 Germantown avenue, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Harry Katz, 1537 Germantown avenue, Philadelphia. Brick, 1 story, 40x96 feet, slag roof, galvanized iron skylights, cement floors, electric lighting, steam heating. Owner taking bids, due as soon as possible. Jacob Bender, 1817 South Fourth street; Fred Quate, 1323 Snyder avenue, and Albert Schmitt, 2449 North Hancock street, are figuring.

Office Building, 1328 Walnut street, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, J. Warner Hutchins, on premises. Stone, brick, steel and terra cotta, 10 stories, 18x90 feet, slag roof. Preliminary plans in progress.

Market House (alt.), 22 and 24 North Delaware avenue, Philadelphia. Architects, Const. Dept. of Swift & Co., 60 North Market street, Boston, Mass. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, steel and concrete, 5 stories (alterations to first three floors only), pine and asphalt floors, metal lath, waterproofing, fire doors, tile work, hollow metal skylights, rolling steel shutter (electric work, steam heating, elevators and refrigerating reserved). Owners have received revised bids.

Store and residence, north side of Spruce street, east of Sixty-third street. Architect, E. Allen Wilson, 1209 Chestnut street, Philadelphia. Owner, J. Fienberg, care of A. E. Harshman, 510 Lincoln Building, Philadelphia. Brick, 2 stories, 15x63 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner ready for sub-bids.

Community Garage, Wagner avenue, east of Thirteenth street, Philadelphia. Architect, Frank K. Stahl, 2713 Park avenue, Philadelphia. Owner, Geo. E. Noll, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 125x92 feet, slag roof, steam heating, cement floors, electric lighting. Owner taking bids, due January 13th. Henry P. Schneider, 3713 Old York road; Frank E. Stahl, 2713 Park avenue; and Conneen Const. Co., 1829 Filbert street, are figuring.

Machine Shop and Warehouse, 943-53 North Front street, Philadelphia. Architect, not selected. Owner, Herman L. Winterer, 908 Beach street, Philadelphia. Brick, details not decided.

Temporary Shed, Thirty-second and Cherry streets, Philadelphia. Architects, Bunting &

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Shrigley, 603 Chestnut street, Philadelphia. Owners, H. T. Paiste & Co., 3201 Arch street, Philadelphia. Brick or hollow tile, 1 story, 96x32 feet, slag roof, rolled steel sash, concrete floors, electric lighting. Architects taking bids, due January 18th. Turner Concrete Steel Co., 1713 Sansom street; Smith-Hardican Co., 1606 Cherry street; Barclay White & Co., 1713 Sansom street; John J. Murphy & Co., 1139 S. Wilton street, and J. Howard Roberts, Lansdowne, Pa., are figuring.

Club House and Garage (add.), Emilen and Carpenter streets, Germantown. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Automobile Club of Germantown, Wm. H. Lincoln, chairman of building committee, 314 W. Upsal street, Germantown. Stone, 1 story and basement, 68x114 x155 feet, asbestos shingle or slate and tin and slag roof, oak, maple and hemlock floors, pine and cement floors, metal lath, fire doors, tile and marble work (heating and electric work reserved). Architect taking bids, due January 20th. H. E. Grau Co., 1709 Sansom street; Wills-Ludwick Co., 34 South Seventeenth street; Bailey-Lush Co., 201 N. Broad street; Warren, Moore Co., Commercial Trust Building; H. H. Burrell, 204 South Quince street; Jacob Myers Sons Co., Witherspoon Building; Stokes Bros., 6723 Musgrave street; Eugene Tourison, 1001 Chestnut street; Fred A. Havens Co., 845 North Nineteenth street; Abel Bottoms & Sons Co., 3611 Walnut street, are figuring.

Stores (alt.), 125-27 South Thirteenth st., Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Millards Dress Shop, on premises. New metal front and interior alterations, 2 stories, 32x 92 feet, steam heating, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Structural Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., care Bureau of Yards and Docks, P. R. Harris, chief, Navy Dept., Washington, D. C. Steel and hollow tile, concrete foundations, 2 and 1 stories, 200x696 feet, Gypsum composition and slag or asbestos roof, pine and concrete floors, rolled steel sash, water proofing, safety treads, rolling steel shutters and doors (heating, lighting, plumbing, elevators and cranes reserved). Owners taking bids, due January 19th. Nickson-Duggan Const. Corp., 1218 Chestnut street; P. W. Mark Const. Co., Finance Building; McClintic-Marshall Co., Morris Building, and Belmont Iron Works, Twenty-second and Washington avenue, are figuring.

Garage and Service Building, Fifty-fifth and Market streets, Philadelphia. Architects, Frank V. Greenstein, 715 Empire Building, Philadelphia. Owner, John M. Kennedy, Jr., 1001 Chestnut street, Philadelphia. Brick and steel, 2 stories, 58x110 feet, slag roof, steam heat, electric lighting, ventilators, cement and pine floors, (1) elevator, gasoline storage system. Plans completed. Owner will sub-let.

Business Building, Apartment and Garage, Sixty-third and City Line avenue, Overbrook, Philadelphia. Architect, Robt. Rodas McGoodwin, 1422 Walnut street, Philadelphia. Owner, Abram K. Jerrehian, 1609 Sansom st., Philadelphia. Brick, business building and apartment, 3 stories, 64x41 feet, garage, 1 story, 29x24 feet, slate and slag roofs, pine and cement floors, electric lighting, steam heating, metal lath, waterproofing, tile and marble work. Architect taking revised bids, due January 19th. H. H. Burrell, 206 South Building, and Henry P. Schneider, 1713 Old Quince street; Metzger & Fisher, Denckla York road, are figuring.

Church (completion), Sixty-fifth and Calowhill streets, Philadelphia. Architects, E. F. Durang & Sons, 1220 Locust street, Philadelphia. Owners, St. Donato's R. C. Church, care Rev. Petro Michetti. Stone, terra cotta, 1 story, 52x128 feet, tile and slag roof, cement and pine floors (plumbing, heating, electric work, paving, furniture, fixtures and leaded glass reserved). Architects taking bids, due January 19th. John McShain, 1610 North street; Wm. J. McShane, 417 South Thirteenth street; Wm. R. Dougherty, 1610 Sansom st.; Jacobs Myers & Sons Co., Witherspoon Building, and Jas. J. Murphy, 4034 Powelton ave., are figuring.

Residence, Sixty-third and Overbrook avenue, Philadelphia. Architect, Milton S. Grawl, Harrison Building, Philadelphia. Owner, Mrs. John W. White, 202 South Thirteenth street, Philadelphia. Brick and stucco, 2½ stories, 32x40 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Revised plans completed. Architect ready for sub-bids.

Residences (32), Ruscomb, Boulevard, Ormes and B streets. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x43 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress.

Sewers, Water Mains, etc., Twenty-fourth to Twenty-fifth, Washington to Point Breeze avenues., Philadelphia. Architect, private plans. Owner, City of Philadelphia, Dept. of Public Works, Geo. E. Datesman, director, Room 416, City Hall. Consists of sewers, water mains, demolition, paving, sidewalks, curbs, grading. Owners taking bids, due January 18th, at noon.

Cafe, 9-11-13 North Seventh street, Philadelphia. Architects, Andrew J. Sauer & Co., 608 Chestnut street, Philadelphia. Owner, Charles Rieker, 10 North Seventh street, Philadelphia. Brick, 3 stories, 22x50 feet, slate and tin roof, hot water heat, electric lighting, tile work, hardwood floors, 2 dumb waiters, cabinet work. Architects taking bids, due January 23rd at noon. Wm. R. Dougherty, 1610 Sansom street; Nickson-Duggan Const. Corp., 1218 Chestnut street; A. R. Raff Const. Co., 1635 Thompson street; E. F. Hollenback, Fifteenth and Race streets; John N. Gill &

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Co., Heed Building; Frank G. Stewart, 1619 Sansom street, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Warehouse, 764 South Fifth street, Philadelphia. Architect, David Lupowitz, 1118 Chestnut street, Philadelphia. Owner, M. R. Margulis, 762 South Fifth street, Philadelphia. Brick, 3 stories, 12x60 feet, slag roof, steam heating, electric lighting, skylights, concrete and yellow pine floors. Plans completed. Architect will be ready for bids in a few days.

Structural Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel and hollow tile, concrete foundations, 1 and 2 stories, 200x696 feet, gypsum composition and slag or asbestos roof, pine and concrete floors, rolled steel sash, waterproofing, safety treads, rolling steel shutters and doors (heating, lighting, plumbing, elevators and cranes reserved). Owners taking bids, due January 29th. In addition to those previously reported, H. E. Baton, Twelfth and Sansom streets, and Warren, Moore & Co., Commercial Trust Building, are figuring.

Pathological Laboratory Building, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Health and Charities, Dr. Wilmer Krusen, Director, Room 584, City Hall. Brick, steel and hollow tile, stone and terra cotta trim, 3 stories, 121x82 feet, slag roof, metal lath, rolled steel sash, waterproofing and dampproofing, rolled steel skylights, wire work, tile and marble work, cement floors, metal lockers, metal weather strips,

terrazzo work (elevator, electric work, plumbing, steam heating, ventilating and refrigerating reserved). Owners taking bids, due January 26th at noon. H. E. Baton, Twelfth and Sansom streets; Mitchell Bros., 2125 Race street; Chas. McCaul Co., 1713 Sansom street, are figuring.

Fire House, No. 6, Montgomery avenue, below Girard avenue, \$30,000. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall. Brick, 2 stories, 30x85 feet, slag roof, electric lighting, steam heating, tile work. Plans in progress. Will be ready for bids in about two weeks.

Store Building (alt.), 21-23 South Third st., Philadelphia. Architect, Conrad F. Neff, Heed Building, Philadelphia. Owner, Mrs. Frost, care of architect. Brick, 1 and 3 stories, slag roof, steam heating, gas lighting, pine and cement floors. Plans nearly completed. Architect will take bids in a few days.

Store and Service Building, 1506-08 Callowhill street. Architect, Le Roy B. Rothschild, 414 Bulletin Building, Philadelphia. Owners, Kahn & Greenberg, Morris Building, Philadelphia. Brick, 2 stories, 35x160 feet, slag roof, steam heating, electric lighting, cement and maple floors, new bulks, skylights. Plans about completed. Architect and owners will take sub-bids after January 19th.

Cafe and Saloon (alt. to first two floors), N. W. Cor. Delaware avenue and Chestnut street, Philadelphia. Architect, Le Roy B. Rothschild, 414 Bulletin Building, Philadelphia. Owner, I. Lowenstein, on premises. Brick, electric lighting, metal lath, new bulks, metal ceilings, tile work. Plans about completed. Architect will take bids in a couple of days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

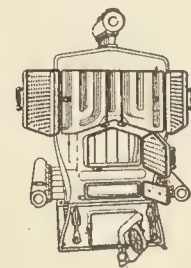
Office Building Annex (alt.), 1219-25 Vine street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Famous Players' Exchange, on premises. Brick, first floor and balcony, electric lighting, metal lath, pine, cement and maple floors, hollow tile, kalamein doors, sprinklers, tile and marble work, office partitions, cabinet work. Contract awarded to Daniel J. McNamee, 1621 North Fifteenth street.

Fire Repairs, 14 South Front street, Phila-

delphia. Architect, private plans. Owners, Seilg Co., Thirteenth and Filbert streets, Philadelphia. Consists of general repairs. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Residence (alt. and add.), 201 W. Chestnut avenue, Chestnut Hill, \$4,500. Architects, Brockie & Hastings, 1713 Sansom street. Owner, Alfred S. Weill, 8718 Seminole street, Chestnut Hill. Stone, frame and plaster, 2½ stories, shingle roof, hardwood floors, plumbing, electric lighting, decorating, tile work.

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Contract awarded to Chas. J. W. Platt, 1015 Arch street, Philadelphia.

Store Building (alt. and add.), 142 North Eighth street, \$10,000. Architect, H. B. Welton, 1606 Cherry street, Philadelphia. Owners, Pine Bros., Inc., 140 North Fifth street, Philadelphia. Brick, 4 stories, slag roof, cement and pine floors, electric lighting, metal lath, rolled steel sash, marble work, metal ceiling, new bulks. Contract awarded to Smith-Haridean Co., 1606 Cherry street.

Church (add. for Sunday School), Rising Sun lane and Levick street, Philadelphia, \$7,500. Architect, private plans. Owners, Lawn-dale Presbyterian Church, care J. Edward Linek, chairman building committee, 832 Le-

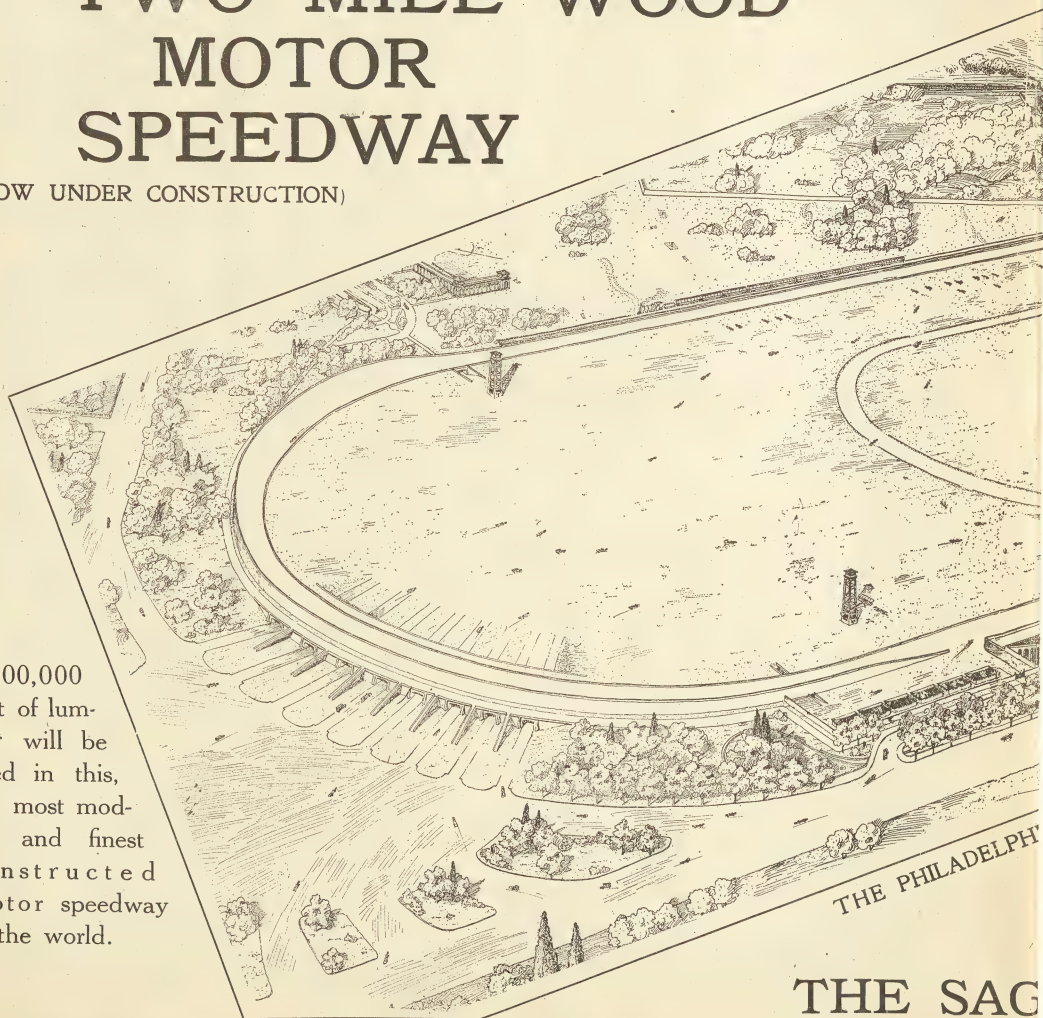
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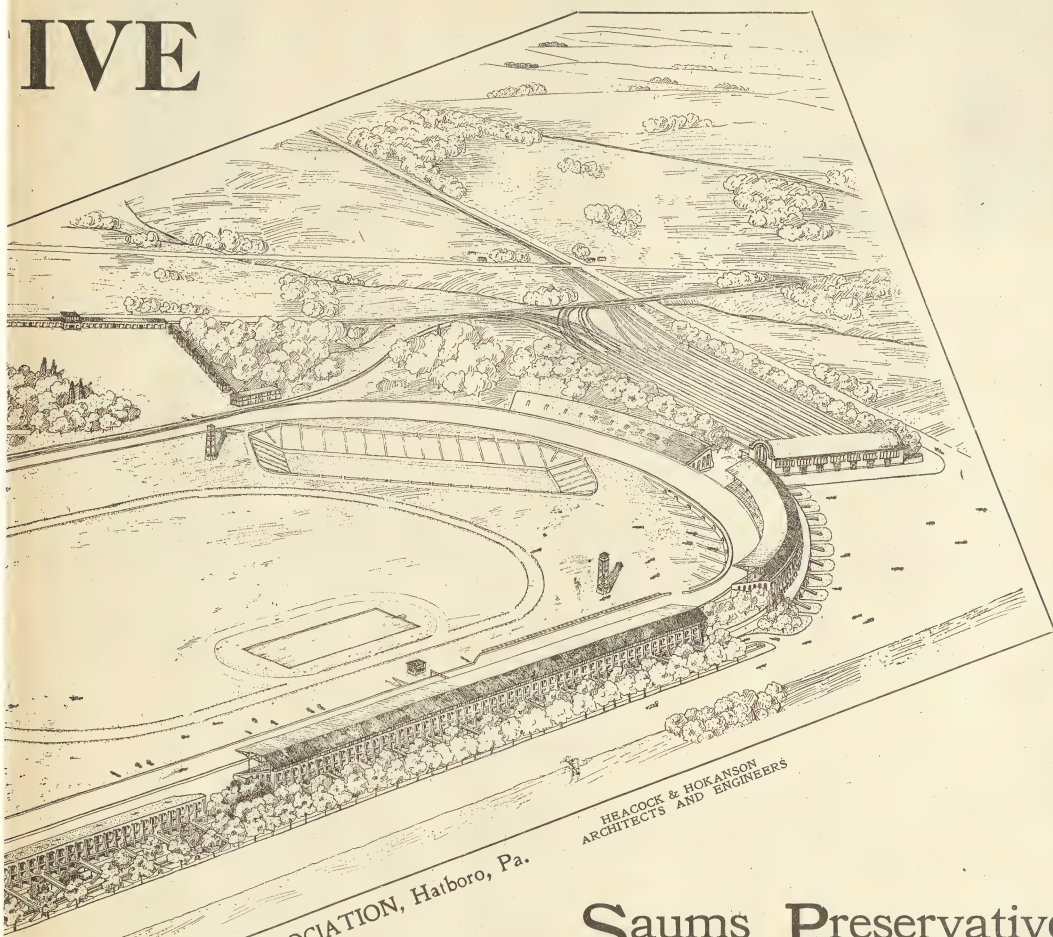
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vick street, Philadelphia. Brick, 1 story, 45 x45 feet, slate roof, pine floors, electric lighting (heating reserved). Contract awarded to Geo. Kessler Cont. Co., Drexel Building.

Garage and Stable, Cynwyd, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Jos. B. Haywood, Levering and Bala avenues, Cynwyd, Pa. Stone and frame, 1½ stories, 40x52 feet, slate roof, cement and pine floors, electric lighting (heating reserved). Contract awarded to E. J. Heddon, Finance Building, Philadelphia.

Dormitory Buildings (5), and Connecting Corridors, Byberry, Pa. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dr. Wm. Krusen, director, Dept. of Public Health and Charities, City Hall, Philadelphia. Brick, stone and hollow tile (1) 2 stories, 54x38 feet and (4) 160x50 feet, slate and slag roof, (plumbing, vacuum heating, etc.). Contract awarded to E. F. Fonder, Land Title Building, \$631,900.

Store Building (remodeling), 1626 Chestnut street, Philadelphia, \$7,200. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, The Hawthorne Shop, care Hagendorn-Mertz Co., Third and Brown sts., Philadelphia. Brick, 4 stories, electric lighting, metal lath, dampproofing, fire doors, marble work, tin roof, hardwood and pine floors, metal ceiling, new bulks, terrazzo work (heating, office partitions, gas and electric fixtures, elevator reserved). Contract awarded to Freund Const. Co., Bulletin Building, Philadelphia.

Department Store (alt. and add.), Eighth and Market streets, \$7,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owners, Strawbridge & Clothier, on premises. Consists of a new fire tower and elevator lift, brick, reinforced concrete, stone trimmings, 6 stories, 21x19 feet, slag roof, metal lath, fire doors, hollow metal skylights (elevator and alterations to heating, lighting and sprinkler system reserved). Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia.

Factory Building, 1311-19 Buttonwood st., \$50,000. Architect, private plans. Owner, Tinius Olsen, 500 North Twelfth street, Philadelphia. Brick, 3 stories, 42x81 feet, slag roof, electric lighting, rolled steel sash, rolling steel shutters and doors, plank floors (elevator, heating and lighting reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Pattern Storage Building, Holmesburg, Philadelphia, \$4,000. Architect, private plans. Owners, American Manganese Bronze Co., Rhawn and Hegerman streets. Brick and concrete, 2 stories, 22x64 feet, A. P. roof, cement and pine floors, rolling steel doors. Con-

tract awarded to F. A. Sorensen, 1113 Callowhill street, Philadelphia.

Cold Storage House and Stable (alt.), Delaware avenue and Callowhill street, Philadelphia, \$5,000. Architect, private plans. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, 2 stories, slag roof, cork insulation, carpenter work, pine floors. Contract awarded to John N. Gill & Co., Heed Building, Philadelphia.

Bakery (add.), 607 North Fifth street, Philadelphia, \$4,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, Emil Eppers, on premises. Brick, 1 story, 20x27 feet, slag roof, cement floors, metal lath, tile work. Contract awarded to Geo. Kessler Cont. Co., Drexel Building.

Northeast Factory, D street, north of Erie avenue, Philadelphia, \$28,000. Architect, private plans. Owner's name withheld. Brick, slow burning, 1 story, 60x200 feet, slag roof, plumbing, cement floors, metal lath, hollid steel sash, ventilators, rolling steel doors. Contract awarded to Pomeroy Const. Co., 1509

Ranstead street, Philadelphia.

Stable (alt. and add.), Eighth and Mifflin streets, Philadelphia, \$20,000. Architect, private plans. Owners, U. G. I. Co., Broad and Arch streets, Philadelphia. Brick and reinforced concrete, terra cotta, 2 stories, slag roof, Belgian block, cement and brick floors, waterproofing, fire doors, ventilators, safety treads, hollow metal skylights (painting, electric work, elevator, heating and gasoline and oil storage system reserved). Contract awarded to Frank G. Stewart, 1619 Sansom street, Philadelphia.

Bank Building (interior alts.), 325-31 Chestnut street, \$16,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Fidelity Trust Co., on premises. Brick, concrete and hollow tile, 2 stories, plumbing, steam heating, combination lighting, metal lath, wire grilles, maple floors, metal lockers, dumb waiters, rolling steel shutters, tile and marble work. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

PENNSYLVANIA

Construction News

High School Upper Darby, Delaware Co., Pa., \$250,000. Architect selected, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, School Board of Upper Darby, care Wm. H. Jones, president, Upper Dary, Pa. Stone, 2 stories, 80x200 feet, central wing 60x72 feet, slate and copper roof. Plans in progress. Too early for details.

Freight Station (add.), Hazelton, Pa. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick and concrete, 1 story, 50x160 feet, asbestos roof, steam heating, electric lighting, pine floors, rolling steel doors (cement reserved). Owners, care Sunbury Div., taking bids.

Residence and Stable (alt. and add.), Mill Creek road, Ardmore, Pa. Architects, Broekie & Hastings, 1713 Sansom street, Philadelphia. Owner, Wm. S. Godfrey, Seventeenth and Walnut streets, Philadelphia. Stone and plaster, 2½ stories, shingle roof, warm air and hot water heating (oak, canvas, pine and cement floors, electric lighting, metal lath, tile work, metal window guards, weatherstrips, cabinet work, decorating and lighting fixtures reserved). Architects taking bids, due January 18th. Frank E. Wallace, 1220 Chancellor street; Wm. H. Eddleman & Sons, 453 Green lane; J. P. Thompson, Real Estate

Trust Building; H. H. Burrell, 206 S. Quince street, and Graham-Campion Co., Heed Building, are figuring. (Gasoline storage system.)

Residence, Bryn Mawr, Pa. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, Wm. G. Hower, Bryn Mawr, Pa. Stone, hollow tile and plaster, 2½ stories, shingle roof, hot water heating, electric lighting, oak floors, tile work. Revised plans in progress.

Residences (10), Drexel Hill, Pa., \$40,000. Architect, E. Kenney Brothers, 5215 Chestnut street, Philadelphia. Owner, Samuel Crothers, 5215 Chestnut street, Philadelphia. Frame, hollow tile and plaster, 2 stories, 20x30 feet, shingle roof, hot water heating, electric lighting, pine floors, cement porches. Plans in progress. Owner will take sub-bids in one week.

Shop and Garage (add.) and Storeroom, Drexel Hill, Pa. Architect, E. Kenney Crothers, 5215 Chestnut street, Philadelphia. Owners, Drexel Hill Motor Co., Drexel Hill, Pa. Brick, hollow tile and plaster, 1 story, 50x80 feet, addition, and 30x25 feet, slag roof, steam heating, electric lighting, cement and pine floors. Plans in progress. Architect will take bids in about ten days.

Residences (60), Sedgwick, Pa. Architect, Milton S. Grawl, Harrison Building, Philadelphia. Owners, Gardiner, Hartzell & Evans,

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Sixteenth and Wharton streets. Brick and stucco, 2½ stories, 32x40 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Plans completed. Architect ready for sub-bids.

Residences (2), Stenton, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owners, Mauran, Dolman & Co., Franklin Bank Building, Philadelphia. Stone and plaster, 2½ stories, 30x62 feet, wing 12x18 feet and 29x52 feet, slate roof, vapor heating, electric lighting, oak and pine floors, hollow tile, tile work. Owners taking bids, due January 29th. The following are figuring: Specht & Sperry, Heed Building; Albert Zellfelder, 151 South Broad street; R. W. Neff, 6610 Germantown avenue; W. John Stevens, Wynecote, Pa.

School, Rockdale, Pa. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, School Board of Ashton Township, Delaware Co., Pa. Stone and brick, 2 stories, 90x52 feet, slag roof, gum and cement floors (plumbing, heating, ventilating and lighting separate bids). Owners, care Dr. A. S. Gay, R. F. D. No. 2, Media, Pa., taking bids, due January 25th. Horg Const. Co., 1634 Sansom street; Jas. B. Flounders, 1329 Arch street; P. J. Hurley, 1233 Cherry street, are figuring.

Storehouse, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Govt., War Department, Washington, D. C. Brick, concrete, and steel, 1 story, 50x200 feet, asbestos roof, concrete floors, rolled steel sash, dampproofing, fire doors. Owners, care U. S. engineer, 815 Witherspoon Building, Philadelphia, taking bids, due February 5th, at noon. Hughes-Foulkrod Co., Commercial Trust Building; Edw. Fay & Son, 5 South Mole street; W. W. Anstine, 1215 Filbert street, and H. H. Wehmeyer, 1004 Lehigh avenue; Monaghan & Losse, 3016 Chestnut street; H. E. Batton, Twelfth and Sansom streets, and F. G. Stewart, 1619 Sansom street, are figuring.

Superintendent's Cottage, Valley Forge, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, John R. K. Scott, Morris Building, Philadelphia. Stone and frame, 1½ stories, 30x40 feet, shingle roof, pine floors. Plans in progress. Architect will take bids in ten days.

Residences (2), Wynnefield, Pa. Architects, Neubauer & Boyd, 1112 Chestnut street, Philadelphia. Owner, W. Percival Johnson, 4030 Lancaster avenue, Philadelphia. Stone and brick, 3 stories, 32x43 feet, slate roof, electric lighting, hot water heating, hardwood floors, tile work. Owner will be ready for bids January 16th.

Science Hall Building, Haverford, Pa. Architects, Baily & Bassett, 421 Walnut st., Philadelphia. Owners, Haverford College, Haverford, Pa. Stone, 3 stories, 70x110 feet, slate roof, steam heating, electric lighting, fireproofing. Architect ready for bids.

Residence (alt.), Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, T. Elwood Bartram, Lansdowne, Pa. Brick, 3 stories, 40x40 feet, slate roof, hot water heating, electric lighting, new plumbing and interior changes. Architects taking bids, due January 23. Lansdowne Const. Co., Charles W. Moore and Geo. W. Riley, all of Lansdowne, Pa., are figuring.

Residence (alt. and add.), Rydal, Pa., \$15,000. Architect, J. Gilbert McIlvaine, 1003 Spruce street, Philadelphia. Owner, Edward E. Marshall, Bullitt Building, Philadelphia. Brick, 2½ stories. Plans in progress.

Residence and Garage, Rydal, Pa., \$25,000. Architect, not selected. Owner, Dr. A. N. Baggs, Abington, Pa. Stone, 2½ stories. Will build about April 1st.

Club House (alt. to locker rooms), Lansdowne, Pa. Architects, De Armond, Ashmead & Birkley, 1529 Walnut street, Philadelphia. Owners, Country Club of Lansdowne, Frank H. Maguire, chairman of building committee, 401 Lansdowne avenue, Lansdowne, Pa. Consists of interior alterations, plumbing, electric lighting, painting, tile and marble work, metal lockers, terrazzo work. Owners taking bids, due as soon as possible. J. Howard Roberts and Geo. W. Riley, both of Lansdowne, are figuring.

Residence, Overbrook, Pa., \$8,000. Architects, Mille & Van Kirk, Harrison Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 24x32 feet, shingle roof, steam heating, electric lighting, pine floors. Plans in progress.

Residence (alt. and add.), Haverford, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Mrs. Herbert Warden, on premises. Stone, 2½ stories, hot water heating, electric lighting, metal lath, pine floors, porch enclosures, brick paving, tile work. Architects have received bids.

School, Newtown, Pa. Architect, Edwin F. Bertollett, 1614 Cherry street, Philadelphia. Owners, School Board of Newtown, Newtown, Pa. Brick or stone, 2 stories, 76x82 feet, slate roof (heating, lighting reserved), pine and reinforced concrete floors, metal lath and sash, waterproofing, fire doors, ventilators. Owners have received bids.

Boiler House, Front and Bern streets, Reading, Pa. Architect, G. L. Gerhard, 612 Penn street, Reading, Pa. Owners, Reading Dyeing Co., Front and Bern streets, Reading, Pa. Brick, 1 story, 50x48 feet, slag roof, electric lighting (boilers, conveyor and electric work reserved). Plans about completed. Architect ready for bids in a few days.

Residence, Front and Nuench streets, Harrisburg, Pa., \$50,000. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owner, D. E. Tracey, care architect. Indiana limestone, 2½ stories, 52x42 feet, tile roof, steam heating, electric lighting, hardwood

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Store and Loft Building, 210 North Third street, Harrisburg, Pa., \$15,000. Architect, F. G. Fahnestock, Patroit Building, Harrisburg, Pa. Owners, H. & L. Lowengard, care architect. Brick, 4 stories, 105x22 feet, composition roof, electric lighting, wood floors, (1) elevator, tile work, terrazzo work. Plans in progress.

Department Store (alt. and add.), Second and Market streets, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, David Kaufman, on premises. Brick, 3 stories, 50x25 feet, slag roof (heating reserved), electric lighting, metal lath, sprinklers, tile and marble work, maple floors. Plans in progress.

Garage, South Cameron street, Harrisburg, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owner, J. P. Shearer, 2430 North Second street, Harrisburg, Pa. Brick, 2 stories, 150x75 feet, slag roof, steam heating, electric lighting, fire doors, metal lockers, concrete floors, gasoline storage system. Plans in progress.

Stable, Storage Building and Wagon Shed, Cherry and Market streets, Shenandoah, Pa. Architects, Wm. F. Koelle & Co., Twenty-sixth and Thompson streets. Owners, Columbia Co., Shenandoah, Pa. Brick, steel and concrete, 2 stories; wagon shed, 1 story, frame, slag roof, concrete floors (heating and lighting reserved by owners), metal sash, elevators. Owners taking revised bids. P. Haiback Cont. Co., Twenty-sixth and Thompson streets, Philadelphia, is figuring.

Mausoleum (alt.), Hanover, Pa., \$20,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, J. R. Smith, Hanover, Pa. Marble, granite and bronze, 1 story, 44x28 feet, tile roof, marble floors, tile and marble work. Plans in progress.

Garage, 712-714 Columbia avenue, Lancaster, Pa., \$7,000. Architect, J. B. Harman, 48 North Queen street, Lancaster, Pa. Owner, James Hires, 422 Queen street, Lancaster, Pa. Brick and steel, 1 story, 50x120 feet, composition roof, hot water heating, electric lighting, concrete floors, gasoline storage system. Plans in progress.

Theatre Building, S. George and Philadelphia streets, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Jackson Theatre Co., York, Pa. Brick, stone and stucco, 1 story and balcony, 100x60 feet. Plans in progress. Too early for details.

Residence, Lewistown, Pa., \$10,000. Architect, John B. Hamme, Giest Building, York, Pa. Owner, J. B. Selheimer, Lewistown, Pa. Brick and stone, 2½ stories, 50x40 feet, slate roof, vapor heating, electric lighting, hardwood floors, weatherstrips, tile and marble work. Plans in progress.

Garage, 215 N. George street, York, Pa. Architect, private plans. Owner, Edward Fox, 1141 East Market street, York, Pa. Brick, 1 story, 190x30 feet, slag roof, electric

lighting, cement floors. Owner has received bids.

Residence (alt. and add.), Rosemont, Pa. Architect, Ralph E. White, Penna. Building, Philadelphia. Owner, Miss Alice M. Patton, on premises. Brick and frame, 2 and 1 story, 28x10 feet and 13x18 feet, shingle roof, tile, asbestos and brick floors, electric lighting. Revised plans in progress.

Storehouse, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, War Department, Washington, D. C. Brick, concrete and steel, 1 story, 50x200 feet, asbestos roof, concrete floors, rolled steel sash, dampproofing, fire doors. Owners, care of U. S. Engr. Office, 815 Witherspoon Building, Philadelphia, are ready for bids, due February 5th at noon.

Factory (alt. and add.), Cedar and Buttonwood streets, Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owners, Penn Rag and Metal Co., on premises. Brick and frame, 2 or 3 stories, 52x97 feet, Carey roof, electric lighting, metal lath, fire doors, wood floors (elevator reserved). Architect taking bids, due January 15th. Daniel H. Hunter, Gaul Bros., Charles H. Schlegel, and John H. Fassnacht, all of Reading, Pa., are figuring.

Factory, 1017 Chestnut street, Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owners, J. M. Fries & Sons, 1017 Chestnut street, Reading, Pa. Concrete and steel, 2 stories, 65x45 feet, slag roof (steam heat, electric lighting and elevator reserved), steel sash, fire doors. Contract awarded to Charles K. Schlegel, Mt. Penn, Reading, Pa.

Residence, Mulberry street, Lancaster, Pa., \$9,000. Architect, M. R. Evans, 10 Orange street, Lancaster, Pa. Owner, Dr. H. P. Brady, Mulberry street, Lancaster, Pa. Brick, 3 stories, 22x80 feet, slate and slag roof, hot water heating, electric lighting, hardwood and yellow pine floors, tile and marble work. Contract awarded to C. F. Eshelman, R. F. D. No. 2, Lancaster, Pa.

Bridge, over River road, Reading, Pa. Reading, Pa. Architect, private plans. Owners, Phila. & Reading R.R. Co., Reading Terminal, Philadelphia. Steel, 50 feet long, concrete work, waterproofing. Contract awarded to Reading Cont. Co., Reading, Pa.

Manufacturing Building (add.), Harrisburg, Pa., \$20,000. Architects, C. D. Cooley Co., Pittsburgh, Pa. Owners, Penna. Milk Products Co., Harrisburg, Pa. Brick and concrete, 3 stories, slag roof, cement and wood floors (heating and lighting reserved), (elevators reserved). Contract awarded to Mona-

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School, Spring House, Montgomery County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Lower Gwynedd Township, Harry Strehle, president of Board, Spring House, Pa. Brick or stone, terra cotta trim, 2 stories, 150x50 feet, slag roof, maple or gum floors (steam heating, plumbing and electric work reserved). Architect selected awaiting meeting of Board on February 6th for proposed appropriation.

Bridge (alt.), south of Gladwyne, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal. Stone, reinforced concrete and timber. Owners taking bids, due January 24th. A. L. Carhart, Hale Building, is figuring.

Residence, Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Frank H. Mahan, Ardmore, Pa. Terra cotta, 2½ stories, 25x40 feet, wing 16x20 feet, shingle roof, hot water heating, electric lighting. Plans completed. Owner will take bids in about one week.

PENNSYLVANIA Contracts Awarded

ghan & Losse, 3016 Chestnut street, Philadelphia.

Residence (alt.), Langhorne, Pa., \$4,000. Architect, private plans. Owner, I. Roberts Newkirk, 614 Clinton street, Philadelphia. Stone, 2½ stories, shingle roof, hot air heating, electric light, pine floors. Contract awarded to Thos. M. Seeds, Jr., & Co., 1207 Race street.

Bridges, Nos. 56 and 57, west of Palmyra and of Hershey, on Lebanon Valley Branch. Architect, private plans. Owners, Phila. and Reading Ry. Co., Reading Terminal, Philadelphia. Steel, concrete, asphalt paving and curbing. Contract awarded to James McGraw Co., Commercial Trust Building.

Residence (alt. and add.), Haverford, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Mrs. Herbert Warden, on premises. Stone, 2½ stories, hot water heating, electric lighting, metal lath, pine floors, porch enclosures, brick paving, tile work. Contract awarded to John Z. Weaver, 227 Ardmore avenue, Ardmore, Pa.

Manufacturing Buildink, Darby, Pa., \$25,000. Architect, private plans. Owners, International Steel Treating Co., Darby, Pa. Reinforced concrete, brick and steel, 1 story, 80x83 feet and 40x30 feet, slag roof, cement floors, rolled steel sash, rolling steel doors

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(plumbing, heating, electric work, wood platforms reserved). Contract awarded to John

R. Wiggins Co., Inc., Heed Building, Philadelphia.

NEW JERSEY Construction News

Manufacturing Building, Second and Clinton streets, Camden, N. J., \$36,000. Architects, Moffett & Stewart, 30 N. Third street, Camden, N. J. Owners, Strandwitz & Scott, care architects. Brick and concrete, 2 stories, 60x150 feet, and wing 18x80 feet, slag roof, steam heating, electric lighting, metal lath and sash, waterproofing, fire doors, ventilators, sprinklers, safety treads, elevators, metal lockers, gasoline storage system (electric work, heating, elevators and plumbing reserved). Plans in progress. Architects will be ready for bids in about three weeks.

Club House (alt. and add.), 635-37 Market street, Camden, \$15,000. Architects, Moffett & Stewart, Inc., 50 N. Third street, Camden, N. J. Owners, Camden Lodge, No. 111, L. O. O. M., on premises. Brick and concrete, 1 and 3 stories, tile and slag roof, steam heating, electric lighting, metal lath, dampproofing, fire doors, ventilators, safety treads, tile and marble work, North Carolina pine floors, hollow tile, metal lockers, cabinet work, dumbwaiters (heating and bowling alleys reserved). Revised plans in progress.

Laboratory Building, Taylor and Quarry alleys, Trenton, N. J. Architect, Geo. S. Drew, State Capitol, Trenton, N. J. Owners, State of N. J., Dept. of Conservation and Development, State House, Trenton, N. J. Brick, terra cotta and stone trimmings, 3 stories, 40x52 feet, asphalt slag and asphalt slate, cement and maple floors, waterproofing, fire doors, (1) dumbwaiter, metal skylight

(heating, lighting, plumbing separate bids). Owners taking bids, due February 2d, at noon. Metzger & Fisher, Denckla Building, and E. Fay & Son, 2 S. Mole street, are figuring.

Laboratory Building, Taylor and Quarry alleys, Trenton, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Department of Conservation and Development, State House, Trenton, N. J. Brick, terra cotta and stone trim, 3 stories, 40x52 feet, asphalt, slag and asphalt slate roof, cement and maple floors, waterproofing, fire doors, dumb waiter, metal skylight (heating, lighting and plumbing separate bids). Owners taking bids, due February 2nd. The following are figuring: Hughes-Foulkrod Co., Commonwealth Building; Metzger & Fisher, Denckla Building; Edw. Fay & Son, 2 South Mole street, Philadelphia; Fred Lange, Audubon, N. J.; Scott & Day, S. W. Mather, E. C. Sutterly, 121 East Hanover street; Charles Smith, 45 Lincoln Drive; Fred Parker, Calhoun street; Carl Poinsett, 37 Maple avenue; Ed. La Rue, all of Trenton, N. J.; G. De Kimpe, Hoboken, N. J., and Gunn-Van Dale Co., Newark, N. J.

Store and Residence, Cass and Adeline sts., Trenton, N. J. Architect, W. B. Thines, Commonwealth Building, Trenton, N. J. Owner, Louis A. Lentner, on premises. Brick, 2 stories and basement, 53x50 feet, slag roof, hot water heating, combination lighting, hardwood floors, metal lath, tile and marble work. Plans in progress.

NEW JERSEY Contracts Awarded

Crane Runway, Delaware avenue and Pearl street, Camden, N. J., \$4,000. Architect, private plans. Owners, Concrete Steel Co., Pennsylvania Building, Philadelphia. Timber. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Filter Building, Camden, N. J., \$20,000.

Architects, Ballinger & Perrot, Seventeenth and Arch street, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, steel and concrete, 2 stories, slag roof, rolled steel sash, waterproofing, cement floors. Contract awarded to Irwin & Leighton, 126 N. Twelfth street, Philadelphia.

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Bridge, No. 34, over Scotch road, east of Ewing Station, N. J., on New York Branch. Architect, private plans. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Steel, concrete work, waterproofing. Contract awarded to American Bridge Co., Widener Building, Philadelphia.

Factory (add.), Perry street, Trenton, N. J., \$7,900. Architect, private plans. Owners, Thomas Maddock's Sons Co., on premises. Brick, 2 stories and basement, 23x70 feet, slag roof, hot water heating, electric lighting, wood floors. Contract awarded to S. W. Mather & Sons, Greenwood and Canal streets, Trenton, N. J.

MARYAND

Construction News

Dormitory, Principal's Residence, Gymnasium and Swimming Pool, Bellona and Gittings avenues, Baltimore, Md., \$60,000. Architects, Thos. B. Owings, 347 N. Charles street, Baltimore, Md., and Thos. G. Machen, Fidelity Building, Baltimore, Md. (Assoc.) Frame, 2 stories, 40x130 feet, 40x80 feet, 40x80 feet, shingle roofs, steam heating, electric lighting, concrete work. Plans in progress.

School Building, Highlandtown, Md. Architects, Smith & May, Calvert Building, Baltimore, Md. Owners, Baltimore County School Board, Albert S. Cook, secretary, Courthouse, Towson, Md. Brick, 3 or 4 stories. Plans in progress. Too early for details.

Dormitory Building, Frostburg, Md. Architect, Chas. M. Anderson, 324 North Charles street, Baltimore, Md. Owners, Maryland State Board of Education, Frostburg, Pa. Brick, 3 stories, 69x43 feet, slate roof, electric lighting, steel and concrete work, fire escapes, galvanized iron work, dampproofing, plastering, painting, plumbing, interior tile work, marble and terra cotta trimmings (heating reserved). Owners have received bids.

Residence, Severna Park, Md. Architect, Edw. L. Palmer, Munsey Building, Baltimore, Md. Owner, O. L. Molter, care architect. Frame, stone foundations, 2½ stories, slate roof, hot water heating, electric lighting. Architect taking bids, due January 15th. The following are figuring: John H. Geis & Co., Brooklyn, Md.; E. G. Turner, 15 E. Fayette street; G. Walter Tovell, Eutaw and McCulloh streets; Gladfelter & Chambers, Thirty-sixth street and Roland avenue, and William Woodfall, Glenburnie, Md.

Factory, Bayard and Russell streets, Baltimore, Md., \$15,000. Architects, Macneil & Macneil, Lexington Street Building, Baltimore, Md. Owners, Dixie Mfg. Co., M. T. Lynch, vice president, Russell and Stockholm streets, Baltimore. Brick, 2 stories, 64x120 feet, slag roof, electric lighting, freight elevators, plumbing, metal sash. Consolidated Eng. Co., Calvert Building, Baltimore, Md., ready for sub-bids.

Walls, Fence, etc., Immigration Station, Baltimore, Md. Architect, Jas. A. Wetmore, Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Lowest

bidders, Price Concrete Const. Co., Maryland Trust Building, Baltimore, Md., \$35,600.

Church, York road near Lyman avenue, Baltimore, Md., \$15,000. Architect, Claude N. Friz, Munsey Building, Philadelphia. Owner, Gregory Baptist Church, Govans, Baltimore, Md. Brick or stone, 2 stories, slate roof, steam heating, combination lighting, plastering, painting, plumbing, interior tile work. Plans in progress.

Residence, Gwynn Oak avenue, Baltimore, Md. Architect, private plans. Owner, J. W. Charles Heil, 3324 East Baltimore street, Baltimore, Md. Hollow tile and stucco, 2½ stories, 40x40 feet, slate roof, metal lath, tile and marble work (plumbing, heating, electric work and fixtures and cement work reserved). Revised plans in progress. Will take bids shortly.

Residences (8), Guilford, Md., \$48,000. Architect, Edw. L. Palmer, Munsey Building, Baltimore, Md. Owner, George Yeatman, 1513 West Lafayette avenue, Baltimore, Md. Brick, 2 stories, slate roof, hot water heat, electric lighting, hardwood floors, tile work, painting, plumbing. Plans in progress. Owner will take sub-bids in two weeks.

Garage, Office and Shop, Columbia avenue, near Bayard street, Baltimore, Md. Architect, private plans. Owners, Monitor Steam and Hot Water Heating Co., 212 West Fayette street, Baltimore. Brick, 1 story, 22x175 feet and 90x175 feet, corrugated iron roof, hot water heat, electric lighting, concrete floor. Owner will be ready for bids in a few days.

Bank Building, Sparks, Md. Architect, John R. Forsythe, 232 St. Paul street, Baltimore, Md. Owners, Bank of Sparks, Sparks, Md. Stone, 1 story, slag roof, electric lighting, steel sash, metal doors, concrete work, plastering, painting, plumbing, interior tile, galvanized iron work (lighting fixtures reserved). Henry S. Rippel, 7 Clay street, Baltimore, Md., is figuring.

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Maryland

Contracts Awarded

Residence, Elwood avenue and Falls road. Architect, A. Towne, care Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, Dr. G. G. Rusk, 200 E. Baltimore street, Baltimore. Frame, 2½ stories, slate roof, hot water heating, electric lighting. Contract awarded to Winkler & Otto, Belair road, Fullerton, Md.

Store Building, 225 West Saratoga street, Baltimore, Md., \$12,000. Architect, private plans. Owners, Safe Deposit and Trust Co., 9-11 South street, Baltimore, Md. Brick, 2 stories, 23x100 feet, slag or tin roof, steam heating, electric lighting, galvanized iron work, plastering, painting, plumbing. Contract awarded to John E. Marshall & Son, 121 Mercer street, Baltimore, Md.

Residence and Garage, Park Heights and Slade avenue, Baltimore, Md. Architect, Edw. L. Palmer, Munsey Building, Baltimore, Md. Owner, Henry F. Westheimer, 123-26 South street, Baltimore, Md. Brick, 3 stories, 59x50 feet, slate roof, hot water heating, electric lighting, tile work, waterproofing, cement work. Contract awarded to Roland Park Co., Roland Park, Md.

Residence, Stratford road, near Northway, Baltimore, Md. Architects, Mottu & White, 322 North Charles street, Baltimore, Md. Owner, Dr. L. J. Goldach, 322 North Charles street, Baltimore, Md. Brick, 2½ stories, 32x45 feet, slate roof, hardwood floors, tile work, waterproofing, concrete work (heating, plumbing and lighting reserved). Contract awarded to G. Walter Tovell, Eutaw and McCulloh streets, Baltimore, Md.

School Building, Poppleton and Hollins sts., Baltimore, Md. Architects, Murphy & Olmstead, 1413 H street, Washington, D. C. Owners, St. Peter's R. C. Church, Rev. Thomas J. Kenny, 848 Hollins street, Baltimore. Brick, terra cotta trim, 3 stories, slag roof, steam heat, electric lighting, concrete work, damp-proofing, metal lath, marble, slate and terrazzo work, plumbing, plastering and painting. Contract awarded to Charles J. Cassidy Co., Southern Building, Washington, D. C.

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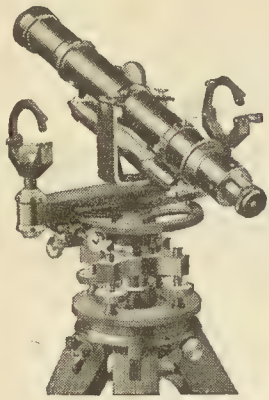
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—Ex.

He would save the commission of the architect, but ruin the store.



A Happy and Prosperous New Year!

To be happy we must be prosperous. A

"Sterling" Transit or Level

in your equipment means a big start towards prosperity.

If you haven't a "STERLING," NOW is the time to make a right start. Call, write or 'phone us TO-DAY.

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repair
Transits
Levels
Tapes, &c.

136 N. 12th Street

Rebuilt
Instruments
For Sale
or Rent

Miscellaneous Construction News

Machine Shop, Alliance, Ohio. Architect, Robert S. Harsh, Alliance, Ohio. Owners, Buckeye Twist Drill Co., Alliance, Ohio. Brick and steel, 3 stories, 40x150 feet, J. M. asbestos roof, reinforced concrete, pine and maple floors, rolled steel sash (elevator, heating, plumbing, lighting reserved). Architect has received bids.

Garage (alt.), Tenth and Shipley streets, Wilmington, Del., \$4,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, A. B. Rothacker, on premises. Brick and stone, 2 stories, 40x40 feet. Architect ready for bids.

Poormen's Hotel, Detroit, Mich. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, stone and terra cotta. Plans about to be started. Details not decided.

Passenger Station, Richmond, Va. Architect, John Russell Pope, 527 Fifth avenue, New York City. Owners, Richmond Terminal Co., care A. C. L. & Richmond, Fredericksburg & Potomac RR. Co., Richmond, Va. Stone, steel, reinforced concrete and plaster, 4 stories. 247x119 feet, slag and asbestos shingle roof, steam heating, electric lighting, metal lath, rolled steel sash, waterproofing, damp-proofing, fire doors, ventilators and lifts

(platforms and sheds, walks and movable furniture reserved). Architect taking bids, due January 29th. Irwin & Leighton, 125 N. Twelfth street, and Metzger & Fisher, Denckla Building, Philadelphia, are figuring.

Residence and Garage, East Hampton, Long Island, N. Y. Architects, Arthur Truscott, 19 Springfield avenue, Merchantville, N. J. Assoc. architect, J. Curtis Laurence, East Hamilton, L. I., N. Y. Owner, Wallace Reid, 56 Maiden lane, New York City. Frame and stucco, 2½ stories, 30x105 feet, shingle roof, hot water heating, hardwood floors, electric lighting, tile work. Plans about completed. Architects will take bids in three weeks.

Warehouse, Fifteenth and Poplar streets, Wilmington, Del. Architect, John Dockery Thompson, Jr., Ford Building, Wilmington, Del. Owners, New Castle Leather Co., Wilmington, Del. Reinforced concrete and brick, marble trim, 2 or 3 stories, 204x104 feet, composition roof, metal lath, rolled steel sash, waterproofing, fire doors, hollow tile, rolling steel doors (elevator, electric work, plumbing and heating reserved). Architect taking bids, due January 19th. F. W. Mark Const. Co., Finance Building, and Pomeroy Const. Co., 1609 Ranstead street, Philadelphia, are figuring.

Miscellaneous Contracts Awarded

Garage, Delaware avenue and Riverview avenue, Wilmington, Del., \$2,500. Architects, Brown & Whiteside, du Pont Building, Wilmington, Del. Owner, W. O. Quayle, 606 W. Nineteenth street, Wilmington, Del. Hollow tile and plaster, 1 story, 25x20 feet, slate roof, electric lighting, concrete floors, hollow tile. Contract awarded to John E. Haley & Son, Wilmington, Del.

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Is the fellow who learns to advertise

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

Modern Apartment Houses

are equipped with individual Gas Refuse Destroyers for each apartment.

The "Rittenhouse Apartment," Eighteenth and Walnut Streets, is so equipped.

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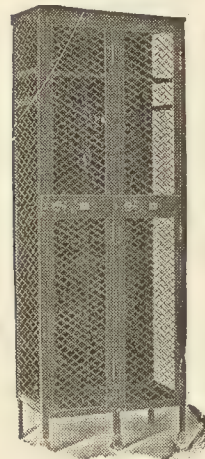
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for Banks, Offices,
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Window Guards,
Iron, Galvanized and
Brass Wire Cloth.

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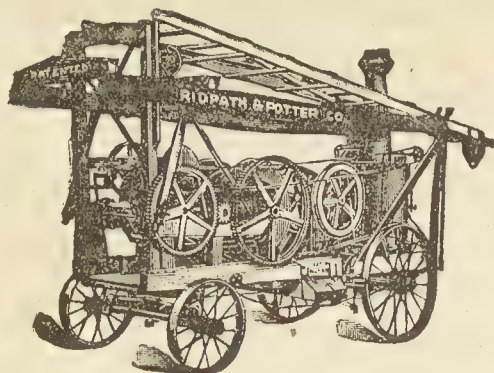
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GRAHAM-CAMPION CO. *Building Construction*

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1215 FILBERT ST., PHILADELPHIA

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Storage, 1518-20 Parrish street, \$5,000. M. Harris Co. (O and C), 18820 Wylie street. Brick, 2 stories, 40x40 feet, slag roof, hot water heating.

Storage Building, Bermuda and Margaret streets, \$12,000. Barrett Manufacturing Co. (O), on premises. A. R. Raff Const. Co. (C), 1635 Thompson street. Brick, 2 stories, 52x52 feet, concrete roof.

Shed, American and Cambria streets, \$4,000. Slafleigh & Co. (O), on premises. Belmont Iron Works (C), Twenty-second and Washington avenue.

Garages (4), Fisher's avenue and American street, \$2,000. Schlossenberg & Cohen (O and C), 6138 Pine street. Brick, 1 story, 12x15 feet, slag roof.

Dwellings (38), Fisher's avenue and American street, \$118,200. Schlossenberg & Cohen, (O and C), 6138 Pine street. Brick, 2 stories, 15x40 feet, slag roof, hot water heating.

Machine shop, Gratz street, on Sedgley avenue, \$20,000. Weideman Machine Co., on premises. Barclay White & Co. (C), 1713 Sansom street. Brick, 1 story, 98x80 feet.

Machine shop, Danew and Wood streets. Schuller & Nolan (O), 820 Cherry street. M. J. Benamy (C), 3042 West York street. Brick, 2 stories, 33x33 feet, slag roof, steam heating.

Dwelling, Course street, north of Cheltenham avenue, \$6,200. Florence Elliot (O), 1625 St. Mark's Place. Arthur Turner (C), 6328 North Camac street. Stone, 2 stories, 24x34 feet, slag roof, hot air heating.

Dwelling, 1518-20 Parrish street, \$3,500. M. Harris Co. (O and C), 1820 Wylie street.

Brick, 2 stories, 30x20 feet, slag roof, hot water heating.

Store and Service Station, 855 North Broad street, \$10,000. Kahn and Greenburg (O and C), 309 Morris Building. Brick, 2 stories, 30x30 feet, slag roof, steam heating.

Garage, Third and Somerset streets, \$2,000. Messrs. Folwell & Co. (O), Third and Cambria streets. Wm. Steele & Sons Co. (C), 1600 Arch street. Brick, 1 story, 30x30 feet, slag roof.

Machine shop, Blahan street, north of Hunting Park avenue, \$164,000. Link Belt Co. (O), Hunting Park avenue. Wm. Steele & Sons Co. (C), 1600 Arch street. Brick, 1 story, 21x24 feet, slag roof.

Dwellings (8), Broad and Loudon streets, \$30,000. Penn Realty and Const. Co. (O and C), Ogontz and Cheltenham avenue. Brick, 2 stories, 27x27 feet, slag roof, steam heating.

Telephone office, Cheltenham avenue, north of Germantown avenue, \$80,000. Bell Telephone Co. (O), Thirteenth and Arch streets. Irvin Leighton (C), 126 North Twelfth street. Brick, 3 stories, 90x90 feet, steam heating, concrete roof.

Manufacturing building, Second and Florist streets, \$32,000. F. F. Lonegan (O), Second and Florist streets. Wm. Steele & Sons Co. (C), 1600 Arch street. Brick, 2 stories, 120x120 feet, slag roof.

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

Alterations and Additions

Rectory, Limekiln pike and Church lane, \$550. House of Prayer (O), on premises. Walker & Payson (C), Lambert and Cheltenham avenue. Hot water heating system.

Dwelling, 477 East Locust avenue, \$4,000. W. P. Shipley (O), on premises. I. A. Dunkelberger (C), 71 Herman street. Brick addition, 2 stories, 16x25 feet, tin roof.

Dwelling, 6111 McCallum street, \$500. Edwin Emhardt, (O), care of Cheltenham Trust Co. I. A. Dunkelberger (C), 71 Herman street. New stair and repairs.

Store and dwelling, 1212 South Fifth street, \$500. H. J. Pelshung (O), 806 Lafayette Building. John P. Fallon (C), 449 South Sixtieth street. New flush bulks.

Bottling establishment, Tenth and Montgomery avenue, \$6,000. Class & Nachod Brewing Co. (O), on premises. Charles H. Caspar (C), 925 Chestnut street. Brick addition, rear, 1 story, 40x28 feet, slag roof.

Wagon building, Girard and Aramingo avenues, \$3,000. W. H. Lear (O), North Front street. Matthew Morrison & Son (C), 2322 North Howard street. General alterations.

Dwelling, 1116 Watkins street, \$470. Frank Rotella (O), on premises. Raffaele Di Fuldio (C), 1422 Moore street. Rear addition, brick, 2 stories, 11x17 feet, slag roof.

Cafe, 919 Race street, \$350. New Republic Cafe Co. (O), on premises. John Garrison (C), 41 South Fifteenth street. Rear addition, brick, 1 story, 12x16 feet.

Frame chapel, Fifty-sixth and Williams avenue, \$400. United Presbyterian Church (O), care of Trustees Philadelphia Presbytery, Witherspoon Building. Robert Killough (C), Wayne and Duval streets. Frame, 1 story, 25x48 feet.

Store and dwelling, 1926 East Passyunk avenue, \$1,100. A. Santucci (O), on premises.

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BUILDING NEWS PUBLISHING CO.

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Philadelphia

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Place your orders with us. We have for years satisfied our customers. **WHY NOT YOU?**

P. H. FAIRLAMB CO.

115 to 121 S. 30th Street
Philadelphia

M. Cipollo (C), 834 Dickinson street. Alterations.

Frame Building, Fifty-ninth street, south of Malvern avenue. Pennsylvania Railroad (O and C), Broad Street Station. Frame, 1 story, 24x44 feet.

Dwelling, 937 Fernon street. Morris Laufman (O), 333 Snyder avenue. Wolf Rosenfred (C), 359 Winton street. Rear addition, brick, 2 stories, 12x10 feet, slag roof.

Garage, 209-11-13 North Twenty-second street, \$300. C. Harris (O and C), 2214 Chestnut street. Steam heating boiler, repairs.

Machine shop, Philip and Dauphin streets, \$2,500. Joseph Wolle (O), on premises. H. E. Baton (C), Twelfth and Sansom streets. Interior alterations.

Dwelling, 1911 Fairmount avenue, \$850. Joseph Baskin (O), 8822 Corinthian street. Harry J. Malloy (C), 518 North Nineteenth street. Hot water heating.

Store and dwelling, Sixtieth and Lansdowne avenue, \$1,500. Michael Buike (O), on premises. A. Raymond Raff Const. Co. (C), 1635 Thompson street. Rear alterations, brick, 2 stories, 13x17 feet.

Dwellings (10), 2527-45 Wharton street, \$800. Robert Wurf (O), 125 South Fourth street. J. E. Esher (C), 1527 Moravian st. Sheds.

Residence, Sixth and Manning sts., \$1,500. C. F. Havercamp (O), 520 Market street, Chester, Pa. F. T. Mercer Co. (C), 1706 De Lancey street. Brick, 1 story addition, 16x23 feet, tin roof, repairs.

Bake oven, 2313 Ann street, \$450. John Adams (O), 5815 Market street. Otto Malz & Son (C), 2108 North Lawrence street. Brick bake oven.

Store and dwelling, 613 South Sixtieth st., \$575. Sam Cohen (O), on premises. Nathan Rosinsky (C), 620 Dickinson street. New flush bulks, fire damage.

Pipe shop, 1226 Belmont avenue, \$450. West End Heating & Eng. Co. (O and C), 4641 Lancaster avenue. New flush bulks.

Cigar store, 1311 Sansom street, \$3,500. Yahn & McDonald (O), Fifteenth and Chestnut streets. Hughes-Foulkrod Co. (C), Commonwealth Building. Repairs and alterations.

Dwelling, Salargnoe and Lawnston streets, \$800. Jos. Duva (O and C), 324 Salargnoe street. Repairs and alterations.

Dwelling, 711 Reed street, \$1,200. A. Sclarowitz (O), on premises. Philip Goodman (C), 2540 South Third street. Brick, 3 story addition, 16x29 feet, slag roof.

Department store, 833 Market street, \$300. Blauners, Inc. (O), on premises. Albert Hall (C), 115 W. Ontario street. Alterations.

Dwelling, 1049 Frankford avenue, \$375.

Jacob Bloom & Co. (O), on premises. M. Moister (C), 3931 North Fifth street, Philadelphia. Repairs.

Apartment House, 710 North Twentieth st., \$806. Jos. Baskin (O), on premises. A. McClintock (C), 1937 Ridge avenue. Hot water heating system.

Factory, Eleventh and Roy streets, \$1,900. E. J. Lavin Co. (O), Bullitt Building. S. E. Waters (C), 810 Franklin Building. Brick, 1 story side addition, 14x45 feet, slag roof.

Dwelling, 1701 North Sixtieth street, \$1,250. Jos. Miller (O), on premises. Alfonso Verdi (C), 6145 West Girard avenue. Brick, 1 story addition, 14x15 feet, slag roof.

Dwelling, 1437 Diamond street, \$600. N. D. Wieand (O), on premises. E. P. Rickly (C), 3860 North Sixteenth street. Hot water heating system.

Wharf, Morris street wharf, \$3,000. Baugh & Sons Co. (O), Pier 72. Link Belt Co. (C), Nicetown, Pa. Tower.

Factory, 1406-08 North Front street, \$1,100. Est. of Eva Link (O), 2733 North Thirteenth street. Matthew Schmidt (C), 1308 North Sixth street. Repair fire damage.

Storage House, 519 Bainbridge street, \$650. E. Kolsky (O), 730 South Fifth street. Jos. E. Myers, Jr., Co. (C), 1237-39 Ridge avenue. Repair fire damage.

Store, Eleventh and Market streets, \$6,000. Frank & Seder (O), Eleventh and Market sts. P. M. Sax (C), Franklin Bank Building. Elevator enclosure.

Store, Eleventh and Chestnut streets, \$10,000. Walter G. Becker (O), Eleventh and Chestnut streets. Thos. M. Seeds, Jr. (C), 1207 Reed street. New bulk windows, repairs, elevator.

TREE FAKIRS AT WORK.

Reports have been received by the Pennsylvania Department of Agriculture of the presence in some parts of the State of tree fakirs who are offering to control tree diseases by "vaccinating" trees by injecting some chemical under the bark or inserting chemical mixtures in holes bored in the trees.

Economic Zoologist J. G. Sanders declares that all claims of this kind are absolutely false and pure fakes and he warns the people of the State against the misrepresentation of such agents. Professor Sanders would like to have every person who is approached by an agent who wishes to vaccinate trees to send the name and address of the company or person at once to the Department of Agriculture

at Harrisburg so that effective steps to stop the fraud may be taken.

Professor Sanders also declares against the driving of nails into trees under any conditions as a cure or remedy for diseases or insects, as the practice is always harmful to the trees. It has been represented in some parts of the State that trees need more iron, and nails are driven into the trees by agents who claim to be "tree doctors." In the eastern section of the State an orchardist was recently approached by an agent who claimed that he had nails dipped in medicine which would work wonders for the trees if driven into them. Other fake agents offer to insert pills or capsules under the bark that will stop tree diseases and damage by insects. Professor Sanders and the Bureau of Zoology is ready to extend every aid to the farmers and orchardists of the State and want to warn everyone of the many methods of fakirs to get their money and ruin their trees.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones. —Exchange.

The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

Buy pure lime, 99% pure, no core, no grit. **DAVID FRANCE CO.,**
Tasker Street Wharf, Delaware River, Phila. Both 'phones.



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Iron Railings and Entrance Gates of appropriate design, and perfect proportion would add much to the dignity and attractiveness of many country places. In other locations, for the protection of lawns and gardens, an

ANCHOR POST FENCE

with galvanized steel posts and woven wire panels, makes an admirable and long lasting enclosure.

We have catalogues illustrating Entrance Gates and Iron Railings, Lawn Fences, Tennis Court, Poultry and Kennel Yard Enclosures, Aviaries, Arbors, Trellises, etc., and will gladly mail you the one you need.

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by installing a

Fire Alarm System

Lever-Pull Fire Gongs
Automatic Self-Ringing Fire Gongs
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"Break-Glass" Signal Fire Gongs

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at Little Cost

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Heater
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5 cts. per
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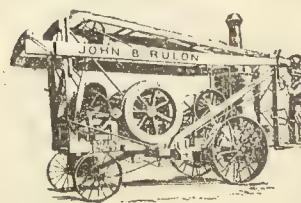
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Tasker Street, Wharf, Delaware River, Philadelphia.

PHILADELPHIA AS A BUILDING CENTER

A Classified and Tabulated Statistical Review of Structural Architectural Activities During 1916

Number of New Buildings Erected from January 1st to December 31st, 1916.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Operations.	Estimated Cost.
Amusement, Places of.....	..	..	1	..	..	..	..	..	..	..	..	..	1	\$82,000
Banks	..	..	..	..	1	..	..	..	..	..	1	..	2	300,000
Club Houses.....	..	..	..	2	..	..	..	..	..	..	..	..	2	6,000
Convent Buildings.....	..	..	..	..	..	1	..	..	..	..	..	..	1	65,000
Churches	..	1	1	1	1	..	5	4	..	1	2	3	19	650,270
Dwellings, one-story	2	..	..	..	..	..	..	..	1	..	..	..	4	10,900
“ two-story	219	617	883	1150	662	882	316	510	408	481	497	579	7204	17,766,375
“ three-story	19	43	36	77	73	59	20	12	59	60	43	15	516	2,999,315
“ four-story and over.....	..	..	..	1	..	..	..	1	..	..	..	..	2	19,200
“ frame	4	..	1	2	4	3	4	2	2	1	3	2	28	76,525
Engine and Boiler Houses.....	..	..	1	1	4	2	1	2	..	1	2	2	16	224,150
Garages	44	27	123	74	73	88	59	90	77	97	65	61	878	1,307,340
Halls	..	..	..	1	..	1	..	1	..	..	..	..	3	73,300
Hospitals	..	..	1	..	..	..	..	..	..	1	..	1	3	868,000
Hotels	..	..	1	1	..	..	..	..	..	..	..	..	2	1,360,000
Libraries	..	..	1	..	..	..	..	..	..	..	..	..	1	45,000
Manufactories	10	4	13	12	6	12	6	5	5	9	6	14	102	5,515,590
Municipal Buildings.....	..	..	..	..	..	..	..	..	1	..	7	..	8	224,300
Miscellaneous Buildings.....	16	14	12	21	* 19	43	32	7	11	12	7	8	202	252,965
Office Buildings.....	2	1	3	4	2	5	4	2	4	4	3	2	36	1,867,690
Parish Buildings.....	..	..	..	..	..	2	1	1	..	..	1	..	2	51,000
Power Houses.....	..	..	..	..	1	..	1	1	1	..	..	..	5	126,500
Rooming Houses.....	..	3	..	..	..	1	..	..	..	..	..	..	4	29,000
Schools	9	1	2	..	1	1	3	..	1	..	1	2	21	1,443,125
Stables	5	2	6	4	4	2	..	1	2	5	3	2	36	97,335
Stores	2	23	7	5	3	4	3	5	2	4	12	2	72	1,569,365
Tenement Houses.....	1	..	..	..	1	..	..	..	..	..	..	2	4	1,290,000
Warehouses	7	1	4	1	3	5	6	5	7	7	5	3	54	2,881,215
Workshops	7	8	9	6	3	4	4	8	8	19	5	7	88	349,315
Total New Buildings.....	347	745	1105	1363	862	1115	464	656	589	702	663	705	9316	\$41,550,775
Additions	76	63	133	133	214	151	144	133	150	144	130	75	1546	5,550,290
Alterations and Repairs.....	197	179	214	254	277	269	285	277	247	268	211	168	2846	2,218,160
Grand Total.....													13,708	\$49,319,225
Fire Escapes.....													51	30,655
Heaters													266	166,315
Miscellaneous Work.....													1,443	332,450
Signs													145	47,925
Total work of all kinds.....													15,613	\$49,896,570

TWO-STORY DWELLINGS—Including Two-story Stores and Dwelling

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Totals
Jan.	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	22	0	0	0	0	0	0	0	0	0	3	0	3	0	0	54	19	21	1	64	0	0	0	22	0	0	219	
Feb.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	26	30	0	17	0	0	0	0	0	0	2	8	5	0	1	20	0	257	0	120	0	0	29	98	0	0	617	
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	66	17	59	43	0	0	37	0	0	0	0	39	7	0	0	33	62	35	2	250	34	0	0	197	0	0	883	
April	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	77	61	0	1	124	0	1	0	0	0	0	138	52	7	0	0	73	27	132	21	325	26	0	11	61	0	0	1150
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	11	15	33	0	0	0	0	1	0	0	0	0	0	75	20	0	0	96	6	64	2	157	16	1	99	65	0	0	662
June	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	24	6	0	102	0	0	0	0	0	0	221	0	13	0	0	2	119	140	6	142	14	0	62	26	0	0	882	
July	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	32	28	0	0	0	0	0	0	0	0	0	0	6	7	0	0	0	38	0	138	20	7	7	27	0	0	316	
Aug.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	14	1	13	46	0	0	0	1	2	0	0	40	0	9	75	0	11	0	43	4	139	52	0	12	36	0	0	510
Sept.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	49	0	0	0	0	0	0	0	0	35	45	67	3	0	0	0	1	23	128	1	3	18	28	0	0	408	
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	42	32	0	0	0	0	0	0	0	0	8	0	0	7	0	0	16	44	46	18	132	3	0	39	88	0	0	481
Nov.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	17	12	0	0	0	0	0	0	0	0	31	23	14	31	0	1	20	90	13	189	7	21	19	0	0	0	497	
Dec.	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	8	0	0	16	0	277	5	152	73	0	0	37	0	0	579	
Totals	12	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	70	343	269	72	209	124	0	39	1	2	0	43	480	264	102	113	1	322	297	1144	95	1936	246	32	296	685	0	0	7204	

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Jan.	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	2	0	0	0	0	19			
Feb.	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	2	0	1	0	0	0	0	43			
March	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	4	1	0	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	14	0	0	36		
April	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	17	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	1	0	0	77				
May	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	1	0	0	0	27	15	0	0	0	0	73		
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	17	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	20	4	0	0	14	0	0	59			
July	0	1	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.	4	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	20				
Aug.	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	12				
Sept.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	4	0	0	0	0	0	0	0	0	0	1	3	4	0	0	0	0	0	0	37	2	0	0	0	0	0	59	
Oct.	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	1	0	0	0	0	0	0	0	0	0	6	0	1	4	0	0	0	0	0	30	0	1	0	7	0	0	60	
Nov.	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	29	0	0	0	4	0	0	43		
Dec.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	0	3	0	4	0	0	15			
Totals	4	4	6	8	7	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	84	29	1	0	9	0	0	0	0	1	0	7	2	49	9	0	0	2	3	4	0	199	22	4	0	45	0	0	516

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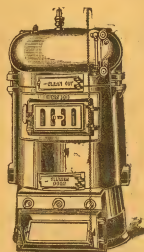
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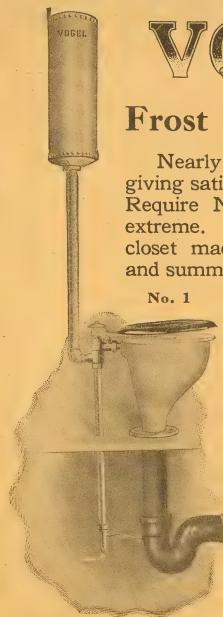
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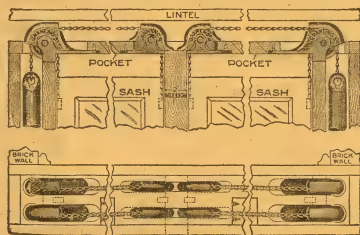
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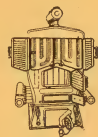
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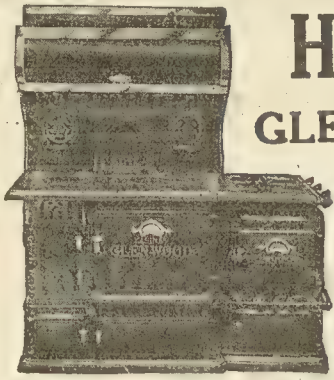
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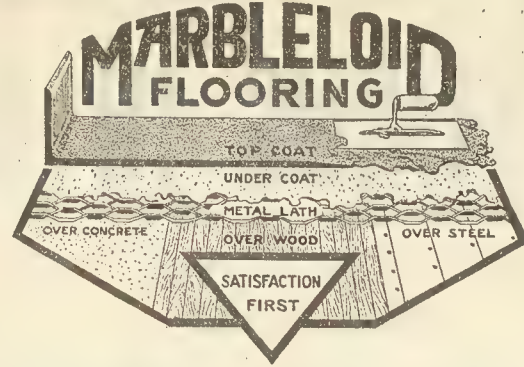


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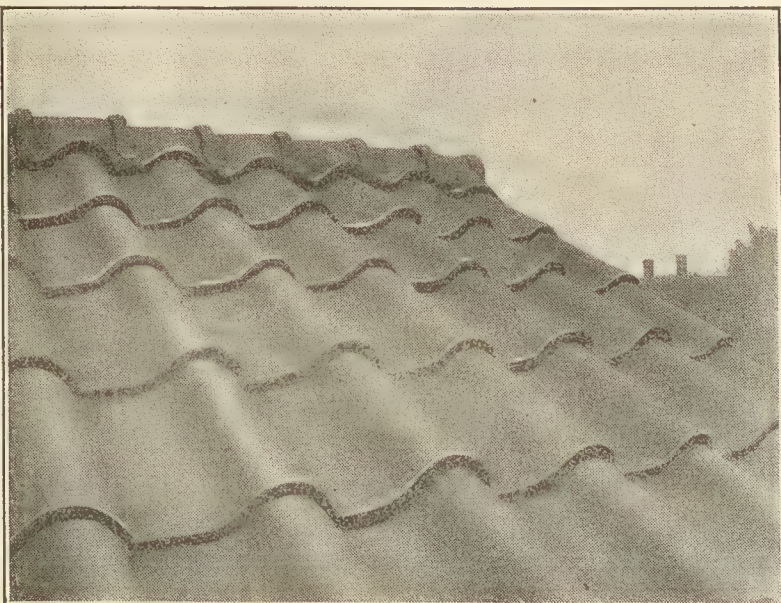
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BUILDERS' GUIDE

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VOLUME XXXII
Number 4

PHILADELPHIA
January 24, 1917



As The Editor Sees It



THE question of specifications is not a new one. The first architect, whoever he was, upon completing his first set of plans, discovered that a set of specifications would be necessary to guide the builder. So he sat down to his desk and prepared the first set of specifications. If all this happened in the stone age that first architect must have been something of a stone-cutter, for hacking out a set of specifications—as we know them to-day,—on a stone tablet, or what is more likely, a series of stone tablets, must have been a job in itself.

Be that as it may, the first architect undoubtedly faced early in his career the task of preparing the first bill of specifications. We know local builders who are willing to swear that this same set, prepared back in the dawn of the ages, is still in use, but, then, builders are a prejudiced lot when it comes to specifications and we feel sure won't take it amiss if we decline to O. K. that particular theory.

It is a fact, however, that specifications are still a prolific bone of contention between the builder and the man behind the plans. The objection most frequently heard to the average specification is that it is not specific. For some reason or other, and despite the fact that architects have been writing specifications now for several thousand years, the objection is urged that the specification does not make the points it assumes to cover as clear and as readily grasped as builders think would be possible. The object of a specification is to specify with more or less clearness exactly what is in the mind of the specifier, i. e.—the architect. Architects are practically a unit in declaring that this, the average specification, does, but builders are as much a unit in asserting that the average specification

leaves entirely too much to the imagination.

* * *

IN a recent number of the attractive little *Bulletin*, issued by the Philadelphia Master Builders' Exchange, John R. Livesey, writing from the viewpoint of a bidder on refrigerator installation, discusses in an interesting vein this mooted question of specifications:

"In these days of high prices of building materials every effort should be extended by the architects to assist the contractors in getting down to rock-bottom prices," says Mr. Livesey. "One way to accomplish this end is to eliminate the element of guesswork in making up estimates, and the best place to begin is the specifications. It is true that quite a few architects—and good ones, at that—are careless in the writing of their specifications, not so much due to lack of time spent on them or number of pages written as ignorance in the use of trade terms. This lack of knowledge usually results in the contractor taking a big chance, guided by the little knowledge he is able to glean from the verbose description of the article in question.

"It should be remembered that the specifications are for the contractor, and should be written in terms which he understands, and should not be a voluminous treatise which can only be interpreted by the writer. Every effort is put forth by the manufacturers of building materials to standardize their goods in such a way as to make specification writing easy for the architects. If the architect would only stop, look and listen for a minute, he would easily get acquainted with these trade terms, and, in addition to getting better bids, he would materially cut the size of his specifications by the elimination of unnecessary descrip-

tion. The above copy is from a newspaper clipping that was handed to me, and as a matter of interest to the Exchange, after reading it over, it seems worthy of consideration."

* * *

FOR the last twenty years, I, and many others, have been up against the same proposition; in my case, the descriptions given of refrigerating plants, refrigerators, cold storage rooms and all kinds of hot and cold pipe insulation in many specifications are so vague and in terms so misleading that it is almost impossible for a reputable contractor in these lines to make up a bid unless he protects himself by bidding high; where others take a chance of getting through with an installation not at all suited for the conditions.

"A contractor hesitates many times to go direct to the architect, for fear of offending his dignity and lessening his chances of obtaining the work; in other cases where they are approached, you are curtly informed to take it up through the sub-contractor who is including the special line; he has to go to the general contractor and he in turn to the architect. Endless red tape and in many cases the architect to protect his reputed high knowledge will not consider changing the specifications—often when it would save his client money."

* * *

IN other cases, the specifications are so arbitrary and vague on hot and cold pipe insulation that the contractor takes advantage of these conditions and installs material not all suitable for the work, to the detriment of the honest contractor, and, on the other hand, the contractor is forced to furnish many times material for work which was not shown or specified,

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caught and forced to do so by vague and misleading terms in the specification.

"'Stop, Look and Listen,'" as in clipping, is good. One man cannot be perfect in all lines, but he can without lowering his dignity get advice direct from reliable persons, or from literature printed in plain terms, so that his specification will be plain and to the point, making it impossible for misunderstandings and possible lawsuits at the end.

"The architect or engineer should be as keen to safeguard the interest of the honest and reputable contractors as his clients, for in so doing his client will get value in what he is buying.

"This is especially applicable to installations of refrigerators, where the great enemy of durability and efficiency is dampness, and in the building of refrigerators and cold storage rooms, proper constructions and thickness of insulation should be used and materials installed that will resist this destructive condition to the utmost."

* * *

IT seems odd, in view of the constant complaint regarding specifications, that some effort is not made to adopt a form that will commend itself on the score of clearness and end, once and for all, the cry of obscurity. Mr. Livesey's reference to the exclusiveness of a certain class of architects is, we fear, not overdrawn. While it is eminently proper that the architect should, in so far as he may, protect himself against the habit, common to a certain element of bidders, of running in for extra-elicitation, it ought to be easy to distinguish between pests of this class and the reputable element who come honestly seeking to clear up points in the specifications vague, ambiguous and misleading. "The bigger the architect, the more reasonable," as a prominent builder remarked recently.

* * *

DEWITT H. FESSENDEN contributes a paper of more than passing importance to the current number of *Arts and Decoration* on "American Adaptation of the French Chateau Type."

"Our ablest architects," writes Mr. Fessenden, "have won their art spurs by ability to tack on modern ideas to accepted types. No more pleasing example for this practice can be found than in the old chateaus that dot the banks of the Loire. So numerous and important are these that the region much traveled by artists and tourists is geographically known as the chateau district. Already many handsome erections in rural America owe their development to these French prototypes. It is the power to invest a new building suitable to modern require-

ments with an old worldly charm that proclaims the artist architect. A very rare and precious product.

"The alliance between art, history and architecture is so subtle but at the same time so pronounced that they cannot be studied apart, each being a complement of the other. The styles and periods of architecture are merely the reflections of the men and women then living, just as to-day the houses we see to be effective must express the character and occupation to some extent of the people inhabiting them. Architecture has always played a very important part in France which is easily intelligible when we bear in mind that the French being artists must perforce express themselves artistically and where can they do that to better effect than in their homes?

"Mansard, who died in 1666, was one of the great French architects whom we know well. Montesquieu, another who said: 'Love is an architect who builds palaces or ruins, if he pleases.' Architects ruined the reign of Louis XIV. The life of France and its people is well expressed in its architecture."

* * *

THE Renaissance overflow of Italy left a great impression on the art and architecture of France. From Francois Premier down they painted pictures, wrote verses, patronized artists and architects until the very soil had an artistic atmosphere. Voltaire desired to be an architect. The ruling powers and the aristocracy were great builders, traveling as they did, bringing home ideas and luxury with which to surround themselves, producing the mixture of styles and types that make the architecture of France so interesting.

"The population during the fifteenth century has been estimated at thirty millions. At the height of the feudal glory there were four thousand noble families and ninety thousand descendants, branches of the above houses. The feudal lords, the seigneurs and other nobles had a right of levying taxes upon their followers. Then came the taxation by the clerics, who claimed their ecclesiastical tenth. Finally the people rose and peasants rioted. The mediaeval country house was a chateau; when it was protected by walls and moats it became a castle or a chateau fort.

"The later part of the fifteenth and first part of the sixteenth century saw the beginning of the Renaissance period. The Loire district being the favorite residential section of the French Kings and nobility was the first to receive the attention of the Italian architects, and artists. New wings were added, fronts of many of the chateaux embellished and adorned, and vast gardens were laid out always

with decorative fountains and corresponding balustrades."

* * *

IN 1494 Charles the VII made an expedition into Italy to settle the long disputed title to the crown of Naples. The richness of the Italian cities; the decoration of the interior palaces made a great impression, and on returning to his native country he brought with him architects and artists who helped spread the Italian influence throughout this district. Charles VIII was born and died in the chateau of Ambrose. Louis XII was born in the chateau of Bloise. Louis's front at Bloise is Gothic, but in the panels of each alternate pier of the arcade on the court side is Renaissance carving executed by the foreign artists and sculptors. With the ascension of Francis I to the throne the Renaissance advanced by leaps and jumps. Every little house, the unique farm buildings, refined in detail and have been designed with that appearance of peace as if everything came natural. In stateliness they may not equal some other types, but in picturesqueness, regardless of how placed, whether in flat land or hilly sections, it is difficult to find a superior type in any country and a style so easily adapted and so full of possibilities for the architect to develop good composition and interesting roof line, good window spacing and a successful plan."

* * *

IN common with most writers that touch the subject, Mr. Fessenden deplores the failure of American designers to get color into the work they are called upon to do. Despite climatic conditions this feeling for color in American design is one that is bound to undergo a remarkable development within the next decade.

Thanks to the art of the texture brick makers, to polychrome terra cotta and a growing interest on the part of architects in the movement to divorce American design from its traditional drabness there is reason to believe that beautiful and strikingly original effects will grow out of the use of the mediums named, and others, within the next ten years.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—"Printer's Ink."

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EDITORIAL NOTES

Warren Webster & Co., Camden, N. J., announce that they have disposed of the business of their air conditioning department and on and after January 1, 1917, the Webster air conditioning apparatus will be manufactured and exploited by the Braemer Air Conditioning Corporation, Lafayette Building, Philadelphia, Pa. The new corporation has been formed by William R. Braemer, for many years manager of the air conditioning department of Warren Webster & Co. Besides conducting a general business in the manufacture and sale of air purifying apparatus, the new company will act as experts in air conditioning work in all its phases. The best wishes of a wide circle of friends will accompany Mr. Braemer in his enlarged field of activity.

* * *

The Year 1916 has gone down in history as one of the most important periods in building activity ever known in the City of New York. The record for building is \$257,000,000. There was a falling off from the previous year in the construction of flats and dwellings. Residential construction cost \$96,000,000; Flats, \$63,000,000; Dwellings, \$33,000,000 and new business and miscellaneous structures, \$130,000. Prices for building materials are still high, and no recession is expected as long as the high cost of labor exists.

* * *

The Federal Courts in Philadelphia, on request of certain stockholders in the Keestone Plaster Co., and its subsidiary Keestone Fire Proofing Co., have appointed a receiver to straighten out the financial matters of the concerns. Both companies are understood to be solvent but in need of ready cash to meet maturing notes and merchandise claims to the amount of \$18,000. The assets of the two companies are in excess of half a million.

* * *

The Youngstown Sheet and Tube Co. has purchased 300 acres of land in the vicinity of East Youngstown involving an outlay of \$300,000. It is understood that the enterprise contemplates a large housing project. Rapidly increasing labor requirements of the steel company demand more housing facilities than are provided by the community of East Youngstown and Struthers.

* * *

The annual meeting of the National Lime Manufacturers' Association will be held at the Hotel Biltmore, New York

City, February 6th and 7th. Only those manufacturers who are members of the organization will be permitted to attend.

* * *

The University of Michigan is being considered by a group of manufacturers of wood products as a place in which to conduct scientific research. Should it be chosen these manufacturers would establish a \$50,000 plant in Ann Arbor, employing a large staff of high salaried experts to work out problems on a large scale.

* * *

The Detroit Brick Manufacturers' and Dealers' Association has constructed a miniature brick house and erected it in the exhibit room of the Builders' and Traders' Exchange, constructed entirely of hand molded miniature brick made from Detroit clay.

* * *

The city planning commission of Johnstown, Pa., has just begun work on an extended program of improvements that will provide for all the work that the city can handle within the next two or three years. With the plans of Architect Hornbostel as a guide, the planners first will devote their attention to the improvements on The Point, which have been sanctioned by the City Council and which will consist of a retaining wall that will cost many thousands of dollars, a stadium and athletic field and improvements to the playground immediately adjoining. The planners also will give their attention to the proposition to create a boulevard along Franklin street in the Sixth and Eighth wards; the improvements necessary to the Constable Hollow Park in the event that the city decides to purchase the property; to the beautification of the Westmont hillside and to the improvement of parks that may be acquired from time to time in the suburban districts. It will require six months to complete the work. The improvements the planners have in view at this time represent an outlay in the neighborhood of \$200,000.

* * *

It is said that the Bessemer & Lake Erie Railroad is arranging to purchase land and put up houses for its employees, to relieve the housing situation in Greenville, Pa., where houses are at a premium and turning people away from the town who have secured employment there. It is stated that the company will erect the houses and allow the men to buy them on the installment plan if they so desire,

The award of contracts for razing all the buildings standing in the line of the Parkway from Broad street to Sixteenth means that in a few months a tremendous gap will be made in the very centre of the city. This will afford an unparalleled opportunity for civic adornment if properly utilized. Presumably plans have been worked out by the municipal authorities and the Art Jury for using this great open space in such a way that, besides serving as an imposing entrance to the Parkway, it will give a fine setting to the surrounding structures. The great central station of the subway system will be located in part there and should give a chance to secure something more ornamental than mere flights of stairs slightly sheltered from the weather. The subject offers great possibilities for public discussion as to the best plans for utilizing this prospective square in a manner worthy of the city.—*Philadelphia Record*.

* * *

The annual meeting of the National Warm-Air Heating and Ventilating Association is to be held at the Hollenden Hotel, Cleveland, Ohio, on Wednesday, January 24. It will be remembered that the association has been most active in promoting the best interests of the furnace industry through its educational and advertising campaign. One of its committees has been actively working on a specimen furnace code for municipalities, towns and cities. A continuation of this and other work looking to further expansion of the furnace trade will be

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given consideration at the forthcoming meeting. Secretary Allen W. Williams has stated that a large number of subjects of vital interest are to be taken up at this meeting and it is hoped there will be a large attendance.

* * *

Benjamin A. Crowther announces that the architectural firm of Davy & Crowther, Scranton, Pa., has been dissolved. Mr. Crowther has opened offices in the Miller Building, where he will be glad to receive catalogues, etc.

* * *

The annual dinner of the members of the Building Material Exchange of the City of New York was held Thursday afternoon, January 11, at the Hotel McAlpin. The dinner was attended by approximately two hundred members of the association and their guests. The toastmaster of the occasion was C. J. Curtin, president of the organization, and addresses were made by Borough President Marks, United States Senator Calder and Charles M. Kelly, president of the New England Builders' Supply Co., of Providence, R. I. Other guests included the Superintendents of Building of Greater New York and F. A. Genung, of Newark. The committee in charge of the arrangements was composed of C. J. Curtin, Elliott Smith, George A. Molitor, Joseph F. Miller, Frank E. Wise, Harold Halstead and Walter C. Schultz.

* * *

The chief building materials of the future will be concrete, aluminum and glass, according to Frank Shuman, engineer, who spoke at a luncheon of the Master Builders' Exchange, Seventh street below Market. Describing some notable scientific appliances made recently, he mentioned "sun boilers," whereby the rays of the sun are utilized as a source of mechanical power.

* * *

James E. McNulty, manager of The J. J. Snider Lumber Co., has been elected President of the Columbus, O., Builders' Exchange. Wm. F. Keon is first vice-president; E. A. Prentice second vice-president, and R. L. Wirtz, Will D. Cherry, J. C. Brigel, George F. Frankenberg and David Krause are directors.

* * *

Another loan of \$10,000,000 for general municipal improvements is under consideration by leaders of the Smith administration. The Mayor discussed the proposition with his directors before he left for the South on Saturday. The money would be used for improving the water system, streets, sewers, bridges and other classes of work not provided for sufficiently in the \$42,450,797 general

loan authorized last year. The city's borrowing capacity was almost exhausted by the three big loans, aggregating \$114,525,000, authorized last year, so that it is necessary to ask the people to approve the contemplated new issue. The next regular election will not be held until the primary in the fall, and to hold a special loan election this spring would cost about \$70,000. A Councilmanic loan of \$10,000,000 could not be authorized at the present time as it would go above the legal limit of money that can be borrowed by authority of Councils alone.

PORTLAND CEMENT MORTARS AND CONCRETES.

A publication has been issued by the Bureau of Standards, Department of Commerce, on the "Compressive Strength of Portland Cement Mortars and Concretes," which will be of interest to contractors and engineers and, in fact, to all users of cement.

Many users of cement believe that the strength of concrete is entirely dependent upon the quantity of cement used in the mixture. This is not true, as a mixture lean in cement but properly made may have much greater strength than a rich mixture improperly prepared.

While there are not a great many failures of concrete structures, the majority of those which do occur are due to careless methods of preparing and placing the concrete, or ignorance of the effect of variable treatment. Most of the concrete used in building construction work to-day is mixed with an excessive quantity of water which permits of economic transportation from the mixing plant to the forms by means of chutes and troughs, but this excess of water may result in reducing the strength 50 per cent. or more from that which could be obtained by using a lesser quantity of water.

The paper states that certain generally accepted methods of testing aggregates and proportioning mixtures are incorrect and suggests methods of selecting concrete aggregates, proportioning the mixture, placing and curing.

Copies of the publication, "Technologic Paper No. 58," may be obtained free upon request to the Bureau of Standards, Washington, D. C.

HIGHER REALTY VALUES WOULD COMPENSATE CITY.

The increase in real estate values following such city improvements as the high-speed transit lines, the Parkway, the southern boulevard and the widening of Delaware avenue, will more than compensate the city for the huge sums it will expend. That was the statement of Edgar G. Cross, president of the Philadelphia Real Estate Board, who spoke before the Rotary Club at a luncheon at the Hotel Adelphia.

"There are many persons who think that

the expenditure for the proposed big civic improvements is excessive," said Cross. "They should realize the great benefits that will accrue. Many millions of dollars of new dwellings and buildings in the wake of the improvements will follow and more taxes will be poured into the city treasury. Industries will be stimulated, and more industrial concerns will be attracted to the city beautiful."

The speaker described the various centers from which real estate values radiate. The city's main center, he said, was at Broad and Chestnut streets, where properties are worth from \$20,000 to \$25,000 per running foot.

YOU GET WHAT YOU GO AFTER.

This applies to all things.

The young man won't get the girl he wants—if he don't go after her.

You get the kind of fish you go after. Large fish do not live in small ponds.

And so with contracting.

If you hang out a shingle and say you want jobbing work—that's what you are going to get.

If you are after house jobs—and go after them—that's what you get.

If you want school house work or church work or large factory work, and go after them, and just that class of construction—that is the kind of work you will get.

So if you want to specialize—if you think you can do better on one or the other kinds of work—go after it but go after it strong—you will get it—for you get what you go after.—"National Builder."

HE HAD A LOT OF SENSE.

There was an old geezer, he had a lot of sense. He started up a business on a dollar-eighty cents. The dollar for stock, and the eighty for an ad brought him three lovely dollars in a day, by dad! Well, he bought more goods and a little more space, and he played that system with a smile on his face. The customers flocked to his two-by-four and soon he had to hustle for a regular store. Up on the square where the people pass, he gobbled up a corner that was all plate glass. He fixed up the windows with the best that he had and told them all about it in a half-page ad. He soon had 'em coming and he never, never quit, and he wouldn't cut down on his ads one jit. And he's kept things humming in the town ever since, and everybody calls him the Merchant Prince. Some say it's luck, but that's all bunk—why he was doing business when the times were punk! People have to purchase and the Geezer was wise—for he knew the way to get 'em was to advertise.—E. F. McIntyre in "Furniture Journal."

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

College Buildings, Morgantown, W. Va., \$200,000. Architect, Paul A. Davis, 3d, 1713 Sansom street. Owners, University of W. Va., State Board of Control, Jas. S. Larkin, president of board, Charleston, W. Va. Brick, stone, steel and terra cotta, agriculture building, 3 stories, 86x188 feet; dormitory building, 3 stories, 43x320 feet, slate and slag roofs, steam heating, electric lighting, cement, composition and pine floors, metal lath, fire doors, elevator (2), dumbwaiter (1). Owners taking bids, due February 14th, at 2 o'clock. The following are figuring: Chas. McCaul Co., 1713 Sansom street; H. E. Baton, Twelfth and Sansom streets; Driscoll Co., Stock Exchange Building, all of Philadelphia, Pa.; Ley Const. Co., F. F. Schellenberg, 14 Wood street; Dawson Const. Co., 1 May Building, all of Pittsburgh, Pa.; R. R. Kitchen & Co., Wheeling, W. Va.; Riley & Riley Co., Shinnstown, W. Va.; Prescott Const. Co., Parkersburg, W. Va.; Chaplin & Co., Morgantown, W. Va.; Cole Bros., Inc., Morgantown, W. Va.; F. O. Trump, Kearneysville, W. Va.; Larson & Lane, Clarksburg, W. Va.; J. L. Crouse, Greensburg, N. C.; Longest & Tessler Co., Greensboro, N. C.; W. P. Rose, Goldsboro, N. C.; Chas. D. Keyser, Bellaire, Ohio; Cullen & Vaughn Co., Columbus, O.; E. Minter & Co., 115 Broadway; Geo. B. Wills & Co., 101 Park ave.; W. H. Fissell & Co., Broadway and Thirty-fourth street, all of New York City; Michael Staub, Mamaroneck, N. Y.; J. A. Johnson, Uniontown, Pa.; Richardson & Burgess, Inc., 616 Colorado Building, Washington, D. C.; Arthur L. Smith, Fifteenth and H streets, Washington, D. C.; Consolidated Eng. Co., Calvert Building; David M. Andrew Co., Mt. Vernon avenue and Twenty-sixth street; Cogswell-Koether Co., 406 Park avenue; J. Henry Miller, Inc., Eutaw and Franklin streets, all of Baltimore, Md.; Norcross Bros., Worcester, Mass.; J. T. Dalton & Sons, Junction City, Kansas; Travers-Wood Co., Richmond, Va.; Simeon William Russell, 19 La Salle street, Chicago, Ill.; P. W. Finn & Son, 17 Masonic Temple, Altoona, Pa.

House of Correction (alt. and add.), Holmsburg, Philadelphia, \$100,000. Architect, Chas. E. Oelschlager, 1615 Walnut street, Philadelphia. Owners, City of Philadelphia, Dept. of Public Safety, Wm. H. Wilson, director, City Hall. Brick and stone. Plans in progress. Too early for details.

Residences (23) and Stores (4), Thirty-sixth and Oodland avenue. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Samuel Rader, 721 S. Fifty-first street, Philadelphia. Brick, 2 stories, 15x39 feet, slag roof, hot water heating, combination lighting, hardwood and pine floors. Plans completed. Owner will take sub-bids in a few days.

Residences (32), Eleventh and Wyoming avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x58 feet (with garages in basements), 16x42 feet, slag roofs, hot water heating, electric lighting, hardwood floors, cement work. Plans about completed. Architect will take sub-bids in about two weeks.

Residences (10), Twenty-ninth and Allegheny avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Morris L. Miller, Common-

wealth Building, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, hot water heating, hardwood floors, electric lighting. Owner will take sub-bids in one week.

Residence, Cliveden street, west of Wissahickon avenue, \$15,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Fletcher, McNally & Boas, Bread and Race streets, Philadelphia. Stone, 3 stories, 30x53 feet, wing 12x14 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids, due January 26th. The following are figuring: Wm. J. Gruhler & Co., 219 E. High street; Chas. Johnson, 5701 Boyer street; Fred Elvidge & Son, 5522 Germantown avenue; Wm. C. Wright, 22 E. Harvey street; R. M. Peterson, 5250 Wakefield street; Wm. H. Eddleman & Sons, 453 Green lane, Roxborough; Samuel Harting, 20 E. Johnson street; John E. Walt, 204 E. Willow avenue; Geo. A. Boyd, 5012 Schuyler street, and W. John Stevens, Wynecote, Pa.

Residence, Cliveden street, west of Wissahickon avenue, \$15,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Fletcher, McNally & Boas, Bread and Race streets, Philadelphia. Stone, 3 stories, 30x53 feet, wing 12x14 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking bids, due January 26th. The following are figuring: Wm. J. Gruhler & Co., 219 E. High street; Chas. Johnson, 5701 Boyer street; Fred Elvidge & Son, 5522 Germantown avenue; Wm. C. Wright, 22 E. Harvey street; R. M. Peterson, 5250 Wakefield street; Wm. H. Eddleman & Sons, 453 Green lane, Roxborough; Samuel Harting, 20 E. Johnson street; John E. Walt, 204 E. Willow avenue; Geo. A. Boyd, 5012 Schuyler street, and W. John Stevens, Wynecote, Pa.

Apartment Hotel, Walnut street, between Twelfth and Thirteenth streets, Philadelphia. Architect, Frederick Webber, 403 Morris Building, Philadelphia. Owner, name withheld. Brick, steel, stone and terra cotta, 15 stories, 22x107 feet, slag roof, steam heating, electric lighting, metal lath, hollow metal sash, dampproofing, waterproofing, fire doors, tile and marble work, oak and pine floors, hollow tile, elevators. Architect taking sub-bids.

Factory (alt.), 1019 Cherry street, Philadelphia, \$2,000. Architect, private plans. Owner, Clarence E. Miller, 35 N. Eleventh street, Philadelphia. Brick, slag roof, pine floors, (1) elevator, new bulks, millwork. Owner will take bids.

Cafe and Dwelling (alt.), northeast corner Sixty-second and Walnut streets, Philadelphia. Architect, H. E. De Hoff, 48 S. Sixty-first street, Philadelphia. Owner, Wm. Meenehan, on premises. Brick, 2 stories, tin roof, plumbing, electric lighting, composition and pine floors, metal skylights, tile and marble work. Owner taking bids, due in one week. Smith-Hardican Co., 1606 Cherry street, and John P. Fallon, 449 S. Sixtieth street; John Welsh, 221 N. Seventeenth street, and Andrew Donaldson, Jr., 2337 Oakford street, are figuring.

Saloon and Cafe, 9-11-13 N. Seventh street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Charles Ricker, 10 N. Seventh street,

Philadelphia. Brick, 3 stories, 22x43 feet, slate and tin roof, hot water heating, combination lighting, metal lath, fire doors, (1) ventilator, pine and cement floors weatherstrip, tile and marble work, (1) dumbwaiter, (gas and electrical fixtures and bar fixtures reserved). Architect has received bids.

Lumber Shed, northeast corner Glenwood avenue and Dauphin street. Architect, private plans. Owners, Geo. Nass & Son, Mroad and Vine streets, Philadelphia. Steel and concrete, 1 story, 129x106 feet, slag roof. Owners taking bids, due January 25th. John N. Gill & Co., Heed Building, Philadelphia, are figuring.

Apartment House (alt. and add.), northeast corner Thirteenth and Pine streets. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, Henry Chapman, 1348 Pine street, Philadelphia. Brick, stone trimmings, 3 stories, addition, 19x12 feet and 17x12 feet, tin roof, pine and oak floors, metal lath (heating, electric work and interior decorating reserved). Architect has received bids.

Cafe and Restaurant (alt. and add.), 3212 Market street, Philadelphia. Architect, Carl F. Berger, 1416 S. Penn Square, Philadelphia. Owner, P. J. Ryan, on premises. Brick and stone, 3 stories, addition 2 stories, 47x18 feet, tin and slag roof, electric lighting, metal lath, waterproofing, cement paving, metal ceiling (plumbing, bar fixtures, hot water heating and cabinet work reserved). Architect has received bids.

Apartment Hotel (interior alt.), 1221 Walnut street, Philadelphia. Architect, not selected. Owners, Hotel Yorke, care Robt. M. Bryson, Bryson Hotel, Twelfth and Market streets, Philadelphia. Brick and stone, 4 stories, steam heating, electric lighting, plumbing, interior decorating, pine floors, tile work. Will start work in about two weeks.

Wharf and Dock, foot of Wolf street, Philadelphia. Architects, Dept. of Wharves, Docks and Ferries, 552 Bourse Building. Owners, City of Philadelphia, Dept. of Wharves, Docks and Ferries, 552 Bourse Building, Philadelphia. Concrete, 2 stories, 900x250 feet, slag roof. Plans in progress.

Factory Building, southwest corner Philip and Wharton streets, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin sts., Philadelphia. Owners, N. Platt & Co., 1526 E. Moyamensing avenue, Philadelphia. Brick, slow burning, 2 stories, 40x90 feet, slag roof, electric lighting, hand elevator, concrete and wood floors, dry-kiln room, smoke stack, brick, 50 feet high. Owners taking bids, due January 20th. John V. Speth & Co., 1714 Sansom street, are figuring.

Factory, Thirty-second and Cherry streets, Philadelphia. Architects, Bunting & Shrigley 603 Chestnut street, Philadelphia. Owners, H. T. Paiste & Co., 3201 Arch street, Philadelphia. Brick or hollow tile, 1 story, 96x32 feet, slag roof, rolled steel sash, concrete floors, electric lighting. Architects have received bids.

Club House and Garage (add.), Emlen and Carpenter streets, Germantown. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Automobile Club of Germantown, Wm. H. Lincoln, chairman of building commission, 314 W. Upsal street, Germantown. Stone, 1 story and basement, 62x144 feet and 155 feet, asbestos shingle, or slate

and tin and slag roof, oak, maple, hemlock, pine and cement floors, metal lath, fire doors, tile and marble work (heating, and electric work reserved). Architect taking bids, due January 24th. (Note extension.) In addition to those previously reported, J. Sims Wilson & Co., 1125 Brown street; Doyle & Co., 1519 Sansom street; Burd P. Evans, Thirteenth and Wallace streets; J. Richard Jackson, Perry Building; I. T. Shoemaker, 1324 Walnut street; Ketcham & McQuade, 1029 Brown street; Samuel F. McNeil, 953 E. Chelton avenue, and Driscoll Co., Stock Exchange Building, are figuring.

Church, Twenty-seventh and Indiana avenue, Philadelphia. Architect, W. W. Sharpless, Brown Bros. Building, Philadelphia. Owners, Diamond Street Baptist Church, Rev. Geo. E. Rees, 2227 Venango street, Philadelphia. Stone or hollow tile and plaster, 1 story and basement, 50x85 feet, tile or slate roof, composition and pine floors, electric lighting, fire doors, cabinet work (heating, decorations and furniture, cement paving, lighting fixtures reserved). Architect taking bids, due January 26th. The following are figuring: F. C. Traordff, 1613 Sansom street; E. E. Hollenbach, Fifteenth and Race streets; Burd P. Evans, Thirteenth and Wallace streets; Henry P. Schneider, 1713 Old York road; F. B. Davis, 240 N. Sixteenth street; H. E. Sweger, 4435 N. Ueber street; A. R. Raff Const. Co., 1635 Thompson street.

Residences (4), southwest corner Belgrade and Clementine streets. Architects, Durham Bros., Heed Building, Philadelphia. Owner, Jos. Walton, 2611 E. Westmoreland street, Philadelphia. Brick, 2 stories, 14x50 feet, slag roof, hot air heating, combination lighting, pine floors. Owners ready for sub-bids.

Pathological Laboratory Building, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dept. of Public Health and Charities; Dr. Wilmer Krusen, director, 584 City Hall, Philadelphia. Brick, steel and hollow tile, stone and terra cotta trimmings, 3 stories, 121x82 feet, slag roof, metal lath, rolled steel sash, water proofing and dampproofing, rolled steel skylights, wire work, tile and marble work, cement floors, metal lockers, metal weatherstrips, terrazzo work, elevator (1), electric work, plumbing, steam heating, ventilators, refrigerating, reserved. Owners taking bids, due January 26th, at noon. In addition to those previously reported, Frank G. Stewart, 1619 Sansom street; F. W. Van Loon, Denckla Building; Warren, Moore & Co., Commercial Trust Building; Standard Const. Co., Drexel Building; Melody & Keating, 1322 Race st.; Ketcham & McQuade, 1026 Brown street; Cramp & Co., Denckla Building; P. J. Hurley, 1233 Cherry street, are figuring.

Stable Dairy Building, Storage and Refrigerating Room, 624-26-28 Moore street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Central Dairy Co., care architect. Brick, steel and concrete, 1 and 2 stories, 47x126 feet, slag roof, galvanized iron skylights, rolling steel doors, yellow pine and cement floors, electric lighting, combination lighting fixtures, steam heating (refrigerating reserved). Plans in progress. Architect will be ready for bids in about one week.

Residence, Germantown, Philadelphia. Architect, H. Rex Stackhouse, 129 S. Fifth street, Philadelphia. Owner, John R. Rue, 3d, 109 Nippon street, Germantown. Brick, hollow tile and plaster, 2½ stories, 30x60 feet, shingle roof, hot water heating, electric lighting, oak floors, tile work. Architect taking bids, due January 30th. The following are figuring: F. Elvidge & Son, 5522 Germantown avenue; W. O. Springer, 1624 Latimer street; Jas. B. Fionders, 1329 Arch street; Specht & Sperry, Heed Building; J. Paul Emery, 4207 Wynnefield avenue; John E. Walt, 204 E. Willow Grove avenue, and J. Sims Wilson Co., 1125 Brown street; Thos. C. Trafford, 1613 Sansom street, and Albert Zellfelder, 151 S. Broad street.

Store (alt.), 1521 Ridge avenue, Philadelphia. Architect, Armando Alcantara, 2952 E. Bailey street, Philadelphia. Owner, Joseph Kalter, 49 N. Ninth street, Philadelphia. Consists of general interior alterations, new partitions, addition. Brick, 1 story, 15x13 feet, electric lighting. Owner is ready for bids.

Residences (39), Tioga street between E and F streets. Architect, private plans. Owner, Samuel J. Kennedy, 5165 P street. Brick, 2 stories, 15x46 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner will take sub-bids in two weeks. (Notice change of owner.)

Garage and Office Building, 127 E. Mermaid lane, Chestnut Hill. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, Andrew O'Neill, on premises. Brick, 2 stories, 30x60 feet, slag roof, steam heating, electric lighting, cement and pine floors, tile work. Architect taking bids, due January 25th. H. H. Wehmeyer, 1004 Lehigh avenue, is figuring. (Only bidder.)

Store and Dwelling (alt. and add.) and Garage, southwest corner Ninth and South sts. Architect, Julius J. Anderson, 736 Drexel Building, Philadelphia. Owner, Henry Jacoby, on premises. Brick, 3 stories, garage, 1 story, 28x13 feet, slag roof, pine and parquetry floors, cement and mineral floors, combination lighting, metal lath, tile and marble work, metal window guards. Owners taking bids, due January 25th. (Note extension.) In addition to those previously reported, Earle Const. Co., Drexel Building; B. Bornstein, 1510 N. Franklin street, and H. C. Dahl, 231 S. Eighth street, Philadelphia.

Stores (3), Sixty-third street and Woodbine avenue, Overbrook, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Walter B. Smith, 6490 Woodbine avenue, Philadelphia. Brick, 1 story and basement, 15x32 feet each, shingle tile roof, steam heating, electric lighting, hardwood and marbleoid floors. Plans completed. Owner ready for sub-bids.

Warehouse, North Philadelphia. Architect, Armando Alcantara, 2952 N. Bailey street, Philadelphia. Owners, General Scientific Equipment Co., 2951 N. Twenty-seventh st. Reinforced concrete, brick, terra cotta, 3 stories and basement, 110x124 feet, slag roof, electric lighting, steam heating, fire doors, ventilators, rolling steel doors, fire tower. Architect will take approximate bids in about one week.

Apartment House (alt.), 2011 N. Twelfth street, Philadelphia. Architect, private plans. Owner, Miss Georgianna E. Griffing, on prem-

ises. Consists of general interior alterations, plumbing, carpenter work, electric work. Owner taking bids, due in ten days. H. H. Wehmeyer, 1004 Lehigh avenue; Jacob Y. Loux, 1121 Rising Sun avenue, and Wm. C. Heist, 1216 N. Eleventh street, are figuring.

Residence and Garage, 710 N. Upsal street, Germantown, \$20,000. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Harrison L. Potts, 316 N. Third street, Philadelphia. Stone, 2½ stories, 35x65 feet, slag roof, hot water heating, electric lighting, metal lath, hardwood floors, tile work. Builder Samuel Harting, 20 E. Johnson street, and architect ready for sub-bids.

Cafe and Saloon (alt. to first 2 floors), N. W. corner Delaware avenue and Chestnut st., Philadelphia. Architect, Le Roy B. Rothschild, 414 Bulletin Building, Philadelphia. Owner, I. Lowenstein, on premises. Brick, electric lighting, metal lath, new bulks, metal ceilings, tile work. Architect taking bids. The following are figuring: John Schuster, 3552 N. Fifteenth street; Harry Gill, Jr., 2515 Germantown avenue; E. J. Krietzburg, 1345 Arch street, and Freund Const. Co., Bulletin Building, Philadelphia.

Residences (38), Regent street, east of Sixty-fifth street, Philadelphia. Architect, private plans. Owner, Harry W. Donaghy, 1524 Chestnut street, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, steam heating, hardwood floors. Owner will sub-let. Will start work in a few days.

Residences (32), Ormes and "B" streets, north of Rumbout street. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Northeast Boulevard Const. Co., 508-9 Commonwealth Building. Brick, 2 stories, 16x43 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners ready for sub-bids.

Store Building, 1644 Ludlow street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner's name withheld. Brick, 2 stories, slag roof, steam heating, electric lighting, metal ceiling. Architect taking bids, due January 26th. The following are figuring: Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street, and Freund Const. Co., Bulletin Building.

Residence and Garage, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Louis Burk, Third and Girard avenue, Philadelphia. Stone, 2½ stories, 53x33 feet; garage, 1½ stories, 22x25 feet, slate roofs, electric lighting, hot water heating, hardwood floors, tile work, cement work. Architects taking bids, due January 29th. The following are figuring: John N. Gill & Co., Heed Building; Milton W. Young, Overbrook, Pa.; Alfred James, Bala, Pa.; E. J. Hedden, Finance Building; A. L. Fretz & Son, 1220 Chanceller street.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Packing House (add.), Thirtieth and Locust streets, \$19,500. Architect, private plans. Owners, D. B. Martin Co., Thirtieth and Market streets, Philadelphia. Brick, steel and reinforced concrete, 2 stories, 18x160 feet, slag roof, reinforced concrete floors (cork insulation and electric work reserved). Contract awarded to Henry P. Friend, 49 Arcade Building, Norristown, Pa.

Store alt. and add., 3412-14 Germantown avenue, \$5,500. Architect, private plans. Owner, Harry Zibman, on premises. Brick, 1 story addition, 50x50 feet, slag roof (heating and lighting reserved), pine floors, new bulks, marble work. Contract awarded to Jacob Y. Loux, 1121 Rising Sun lane.

Garage and Dwelling (alt.), 3805 Irving st., Philadelphia, \$2,000. Architect, private plans. Owner, Godfrey R. Rebmann, 3926 Spruce st., Philadelphia. Brick, 2 stories, hot water heating, metal lath, hollow tile. Contract awarded to A. Raymond Const. Co., 1635 Thompson street.

Storage Building and Dry Kilns (3), Margaret street and Trenton avenue, Philadelphia, \$25,000. Architect, private plans. Owners, Schwarz Wheel Co., Margaret street and P. RR., Frankford. Brick, 1 story, 60x140 feet and 17x39 feet, slag roof, cement and plank floors, hollow tile work. Contract awarded to P. M. Sax, Franklin Bank Building, Philadelphia.

Department Store (alt.), Eighth and Market streets, Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owners, Lit Brothers, on premises. Consists of 1 story escalator. Contract awarded to F. W. Van Loon, Denekla Building, Philadelphia.

Store (alts.), 210-212 Market street, Philadelphia, \$6,000. Architect, private plans. Owner, Geo. H. Earle, Jr., Real Estate Trust Building, Philadelphia. Consists of general interior alterations, new bulks, hot air heating, electric lighting. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Service Building, Overbrook, Philadelphia, \$100,000. Architect, Paul A. Monaghan, Drexel Building, Philadelphia. Owners, Phila. Theological Seminary of St. Charles Borromeo, Overbrook, Pa. Stone, steel, hol-

low tile, reinforced concrete, terra cotta, 3 and 1 stories, 112x43 feet and 44x20 feet, slate, slag and tile roof, electric elevator, hollow metal skylights, terrazzo work, tile and marble work (heating and electric work, cement sidewalks and road work reserved). Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Store (alt.), northeast corner Juniper and Market streets, \$1,000. Architect, L. E. Den-slow, 44 W. Eighteenth street, New York City. Owners, United Cigar Stores Co., 62 North Eighth street, Philadelphia. Consists of interior alterations, plumbing, plastering, decorating, pine floors, tile and marble work (electric work, store fixtures, entrance doors, reserved). Contract awarded to Edw. Fay & Son, 2 South Mole street, Philadelphia.

Bakery (alt.) and Office Building, 1222-24 Ridge avenue, Philadelphia. Architects, Bart-berger Fisher & Jones, Pittsburgh, Pa. Owners, Parkway Baking Co., Twenty-fourth and Hamilton streets, Philadelphia. Brick, 4, 3 and 1 stories, J. M. asbestos roof, cork brick, cement, composition and pine floors, waterproofing, hollow tile, metal clad doors, plumbing, heating, electric work, ovens and machinery reserved. Contract awarded to Paul J. Essick, 1345 Arch street, Philadelphia.

School and Convent, Seventeenth and Stiles streets, Philadelphia, \$65,000. Architect, Paul A. Monaghan, Drexel Building, Philadelphia. Owners, Church of the Gesu, care Rev. J. Chas. Davey, S. J., pastor, southeast corner Eighteenth and Thompson streets, Philadelphia. Brick, stone, reinforced concrete, terra cotta trimmings, 3 stories, 71x51 feet, and 42x65 feet, slag roof and copper roof, maple floors (heating reserved), electric lighting, metal lath and sash, fire doors, hollow tile, copper skylights, tile and marble work, metal window guards, terrazzo work. Contract awarded to Wm. R. Dougherty, 1610 Sansom street.

Garage, Clifford street and Montgomery avenue, \$4,000. Architect, private plans. Owners, Wm. M. Lloyd & Co., Twenty-ninth and Ridge avenue, Philadelphia. Brick, 1 story, 26x70 feet, slag roof, steam heating, electric lighting, cement floors. Contract awarded to E. E. Hollenback, 1304 Brandywine street, Philadelphia.

tric lighting, hardwood floors. Plans in progress. Architects will take bids in about two weeks.

Farm Buildings and Gardens, "Immergun," Loretta, Pa. Engineer, Chas. Wellford Leavitt, 220 Broadway, N. Y. City. Owner, Chas. M. Schwab, South Bethlehem, Pa. Stone, brick, hollow tile and plaster, cow barn (alt.), 2½ stories; dairyman's cottage, 2 stories; creamery building (alt.), 1 story; greenhouses (9); service building, storage house and tool house, 1 story, slate roof, hot water and hot air heating, electric lighting, rolled steel sash, waterproofing and dampproofing, cement, pine and plank floors, tile and marble work. Architect taking bids, due January 29th. Eugene Tourison, 1001 Chestnut street, Philadelphia, is figuring.

Freight Station (add.), Hazleton, Pa. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick and concrete, 1 story, 50x160 feet, asbestos roof, steam heating, electric lighting, pine floors, rolling steel doors (cement reserved). Owners care Sunbury Division, taking bids, due January 27th. The following are figuring: Driscoll Co., Stock Exchange Building, Philadelphia; J. B. Trexler, 927 North Third street; Reading, Pa., and C. W. Ensign, Inc., National Bank Building, Harrisburg, Pa.

Residence (alt. and add.), Harrisburg, Pa., \$5,000. Architect, Albert Kelsey, Perry Building, Philadelphia. Owner, Mrs. A. P. Dull, Harrisburg, Pa. Consists of new bathrooms, plumbing, electric lighting, (1) elevator, tile work. Plans in progress.

Residences (8), Olney, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. B. Davenport, 4841 North Tenth street, Philadelphia. Brick, 2 stories, 16x33 feet, slag roof, electric lighting, hot water heating. Owner will be ready for sub bids in about one week.

High School, Throop, Pa., \$100,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board of Throop, Pa. Brick, 2 stories and basement, 80x200 feet, slag roof, steam heat, electric lighting, metal lath and sash, waterproofing and dampproofing, fire doors, ventilators, hollow tile, metal lockers, weatherstrips, cabinet work, composition floors. Plans in progress.

Office Building (alt.), Public Square, Wilkes Barre, \$15,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Consists of new store front, interior partitions, iron stairways, marble work, structural steel, ornamental iron and elevator enclosures, tile work. Architect taking bids. Curtis & Co., and Shepherd Const. Co., Wilkes Barre, Pa., are figuring.

Parish House, Williams street, Pittston, Pa., \$10,000. Architect, John J. Hawley, Traders Bank Building, Scranton, Pa. Owner, Rev. Andrew Jurice, Pittston, Pa. Brick, 2½ stories, 34x40 feet, slate roof, steam heating, electric lighting, hardwood floors, tile and marble work. Architect ready for bids.

Residence (alt. and add.), Bryn Mawr, Pa., \$40,000. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Stanley G. Flagg, Jr., Morris Building, Philadelphia. Stone, 3 stories. Plans in progress. Too early for details.

Residence (alt. and add.), Cheltenham, Pa., \$4,000. Architect, Addison H. Savery, Ste-

PENNSYLVANIA

Construction News

Residence, Merion, Pa. Architect, H. Rex Stockhouse, 129 South Fifth street, Philadelphia. Owner, Frank H. Mahan, Ardmore, Pa. Hollow tile and plaster, 2½ stories, 40x26 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in

progress.

Parsonage, Easton, Pa. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owners, Lafayette College, Easton, Pa. Brick, 2½ stories, 40x25 feet and 16x18 feet, shingle roof, steam heating, elec-

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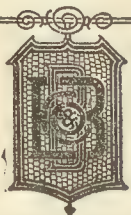
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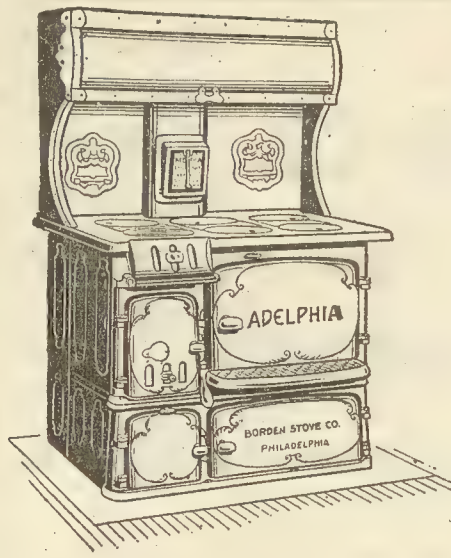
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phen Girard Building, Pa. Owner, Francis R. Taylor, Stephen Girard Building, Philadelphia. Stone, 2½ stories, shingle roof, hardwood floors, warm air heating, electric lighting, tile work. Plans in progress. Architect will take bids in two weeks.

Isaac Sharpless Hall, Haverford, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Stone, reinforced concrete and steel, 4 stories and asement, 111x67 feet, asbestos and asphalt roof, maple, cement and terrazzo floors, metal lath, waterproofing, safety treads, marble work, hollow tile, (1) elevator (heating, plumbing and electric work reserved). Architects taking bids, due February 1st, at noon. The following are figuring: R. C. Ballinger & Co., 218 North Thirteenth street; Doyle & Co., 1519 Sansom street; Cramp & Co., Denekla Building; Wm. R. Dougherty, 1610 Sansom street; J. Sims Wilson Co., 1125 Brown street, and Warren, Moore & Co., Commercial Trust Building.

Store (alt.), Hudson, Pa., \$800. Architect, A. L. Reilly, Bennett Building, Wilkes Barre, Pa. Owner, Jos. Moritz, Hudson, Pa. Frame, 2 stories, 35 feet front, consists of new front. Plans in progress.

Office Building, Bethlehem, Pa., \$75,000. Architect, Geo. S. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, name withheld. Reinforced concrete, fireproof construction, 4 or 6 stories, 50x150 feet, slag roof, heating not decided, electric lighting, (1) elevator, tile and marble work. Plans in progress.

Cafe (alt. and add.), West Market street, Wilkes Barre, Pa., \$10,000. Architect, Geo. F. Schroeder, Weizenkorn Building, Wilkes Barre, Pa. Owner, Adam Turkes, on premises. Brick, tile and marble work, 1 and 2 stories, 150x18 feet, slag roof, steam heating, electric lighting, tile floors, plate glass, bar fixtures, dumbwaiters, tile and marble work. Architect ready for bids.

Garage, Avoa, Pa., \$4,000. Architect, A. L. Reilly, Bennett Building, Wilkes Barre, Pa. Owners, O'Brien Brothers, Avoa, Pa. Brick, 1 story, 74x50 feet, slag roof, concrete floor, electric lighting. Too early for details. Preliminary plans in progress.

Sunday School, Moodie, Pa. Architects, Davey & Crowther, Coal Exchange Building, Scranton, Pa. Owner, Rev. M. Lawson, Moodie, Pa. Frame, 2 stories, 40x48 feet, slate or shingle roof, steam heating, electric lighting, yellow pine floors. Plans in progress.

Residence (alt. and add.), Clay avenue, Scranton, Pa., \$2,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 3 stories, slate roof, steam heating, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Office Building and Flat, Olyphant, Pa. Architect, R. W. Snyder, Title Guarantee Building, Scranton, Pa. Owners, Olyphant Gas & Water Co., Olyphant, Pa. Steel and concrete, 2 stories, 25x60 feet, slag roof, steam heating, gas lighting, concrete floors. Plans in progress. Architect will be ready for bids in about three weeks.

Fire House, Scranton, Pa., \$15,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, City of Scranton, Pa. Stucco, 2 stories, 30x75 feet, shingle roof, steam heating, electric lighting, metal lath and sash, waterproofing and dampproofing, ventilators, tile and marble work, concrete floors. Plans completed. Will be ready for bids in a short time.

Factory, Dunmore, Pa., \$35,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Perpetual Spark Plug Co., Dunmore, Pa. Brick, 2 stories, 30x185 feet, roof not decided, steam heating, electric lighting, metal lath and sash, waterproofing and dampproofing, fire doors, ventilators, concrete floors, elevators, metal lockers, weatherstrips. Plans in progress.

Apartment House (alt.), Arthur avenue and Linden street, Scranton, Pa., \$100,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Preliminary plans in progress. Too early for details. Will contain 30 family apartments.

Warehouses alt. and add.), Scranton, Pa., \$12,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 1 story. Preliminary plans in progress.

Garage, Center avenue and Woodward st., Reading, Pa., \$35,000. Architect, Wayne M. High, 11 N. Third street, Reading, Pa. Owners, Traylor Motor Garage Co., Allentown, Pa. Brick, 2 stories, 120x64 feet, hot water heating, electric lighting, cement and wood floors. Plans in progress. Too early for details.

Garage, Shillington, Pa. Architect, L. D. Lanoe, Wyomissing, Pa. Owner, John L. Rhodes, Reading, Pa. Brick, steel, concrete and stone, 2 stories and basement, 48x126 feet, slag roof, steam heating, electric lighting, metal lath, concrete floors, concrete floors,

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gasoline storage system. Plans in progress. Owner will take bills in a few weeks.

Residences (40), Wyomissing, Pa., \$2,000 each. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owners, Wyomissing Development Co., Erwin F. Impink, manager, Wyomissing, Pa. Brick and stucco, 2½ stories, different sized, shingle and slate roofs, hot air heating electric lighting, yellow pine floors. Plans in progress. Owners will sublet.

Store Building, Pottsville, Pa., \$26,000. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owners, Miller & Miller, Pottsville, Pa. Brick, terra cotta and steel, 3 stories, 30 x 92 feet, slag roof, steam heating, electric lighting, metal lath and sash, dampproofing, ventilators, safety treads, tile work, store fixtures, terrazzo work. Owners ready for bids.

Boiler House, Front and Bern streets, Reading, Pa. Architect, G. L. Gerhart, 619 Penn street, Reading, Pa. Owners, Reading Dyeing Co., on premises. Brick, 1 story, 50x48 feet, slag roof, electric lighting (boiler, electric work and conveyor reserved). Architect taking bids, due January 18th. Chas. H. Schlegel, Mt. Penn; Daniel Hunter, 820 N. Eleventh street; W. A. Sharp, 1208 Market street; Beard Const. Co., Colonial Trust Building; Harry J. Raudenbush, and Isaac L. Graeff, all of Reading, Pa., are figuring.

Factory (alt. and add.), Cedar and Buttonwood street, Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owners, Penn Rag and Metal Co., on premises. Brick and frame, 2 or 3 stories, 52x97 feet, Carey roof, electric lighting, metal lath, fire doors, (1) elevator, reserved. Architect taking bids. Daniel H. Hunter, Gaul Bros., Chas. H. Schlegel, Mt. Penn, and John H. Fassnacht, all of Reading, figuring.

Residence (alt. and add.), near Fort Washington, Pa. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Rollin Morris, care U. G. I. Co., Broad and Arch sts., Philadelphia. Stone, 2½ stories, shingle roof. Plans in progress.

Bridge No. 6, over Jordan Creek, east of Guth, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Catasauque & Fogelsville RR. Co., care P. & R. RR. Co., Reading Terminal, Philadelphia. Stone, timber and reinforced concrete, 3 span, waterproofing. Owners taking bids, due January 31st. A. L. Carhart, Hale Building, and Brann & Stuart, Commercial Trust Building, are figuring.

School, Rockdale, Pa. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, School Board of Ashton Township, Delaware Co., Pa. Stone and brick, 2 stories, 90x52 feet, slag roof, gum and cement floors (plumbing, heating, ventilating and lighting separate bids). Owners, care Dr. A. S. Gay, R. F. D. No. 2, Media, Pa., taking bids, due January 25th. In addition to those previously reported, Abel Bottoms & Sons Co., 3611 Walnut street, are figuring.

Garage, Wyoming avenue, Scranton, Pa., \$65,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner's name withheld. Brick, 2 stories, 150x135 feet, slag roof, electric lighting, composition floors, metal lath. Architects have received bids.

Apartment House (Alts.), Scranton, Pa., \$10,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner's name withheld. Frame and stucco, 3 stories and basement, 40x65 feet, slag roof, steam heating, electric lighting. Architects taking bids. P. J. McAndrew, Hagen Lumber Co., Stender Bros., Washburn & Williams, all of Scranton, Pa., are figuring.

High School, Exeter, Luzerne County, Pa., \$50,000. Architect, John J. Hawley, Traders' Bank Building, Scranton, Pa. Owners, School District of Exeter, Exeter, Pa. Brick, slow burning, 2 stories and basement, 90x75 feet, Barrett specification roof, steam heating, electric lighting, metal lath, concrete floors. Architect ready for bids.

Church, Taylor and Gibson avenues, Scranton, Pa., \$60,000. Architect, John J. Hawley, Traders' Bank Building, Scranton, Pa. Owner, Rt. Rev. Bishop M. J. Hoban, Wyoming avenue, Scranton, Pa. Pressed brick veneer, 1 story and basement, 126x60 feet, slate roof, steam heating, electric lighting, metal lath, concrete and hardwood floors, tile and marble work. Architect ready for bids.

Residence and Garage, Hatboro, Pa. Architect, A. Oscar Martin, Hart Building, Doylestown, Pa. Owner, Walter L. Reading, 1625 Dyre street. Hollow tile and plaster, 2½ stories, 35x26 feet; garage, 1 story, 18x23 feet, slate roof, hot water heating, electric lighting, metal lath, dampproofing, tile work, maple and pine floors. Architect taking bids, due January 30th. Specht & Sperry, Heed Building, Philadelphia, are figuring.

Dormitory Building, Cornwells, Pa. (fire repairs). Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Order of the Holy Ghost, Cornwells, Pa. Con-

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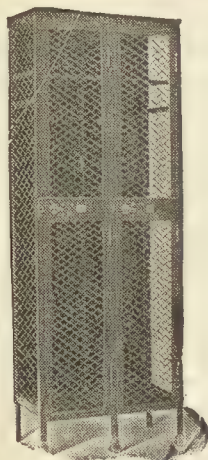
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sists of fire repairs to tower of dirmitory, steel and concrete, 3 stories, metal lath, plaster. Architects taking bids, due January 30th. John McShain, 1610 North street; Con-

neen Const. Co., 1839 Filbert street; H. E. Baton, Twelfth and Sansom streets; James M. Tighe, 245 South Eleventh street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

PENNSYLVANIA Contracts Awarded

Garage, Berwyn, Pa. Architects, Duhring, Okie & Ziegler, Bailey Building, Philadelphia. Owner, Mrs. S. Lawrence Bodine, Berwyn, Pa. Stone, 1½ stories, shingle roof, hot water heating, electric lighting, metal lath, cement floors. Contract awarded to Wm. H. Parلمان, Devon, Pa.

Residence (alt.), Stroudsburg, Pa. Architects, Newberry & Foster, Miners Bank Building, Wilkes Barre, Pa. Owner, E. H. Wycoff, Stroudsburg, Pa. Frame, electric lighting, oak floors, general interior alterations. Contract awarded to Shipper Bros., Stroudsburg, Pa.

Factory, 1017 Chestnut street, Reading, Pa. Architect, C. J. Young, 520 Washington st., Reading, Pa. Owners, J. M. Fries & Sons, on premises. Concrete and steel, 2 stories, 65x45 feet, slag roof, steam heat, electric lighting, steel sash, fire doors, concrete floors (heating, lighting and elevator reserved). Contract awarded to Chas. H. Schlegel, Mt. Penn, Reading, Pa.

Factory (add.), Cornell, Bucks Co., Pa., \$11,000. Architect, Chas. A. Blatchley, Drexel Building, Philadelphia. Owners, Schutte & Koerting Co., Twelfth and Thompson streets. Brick and concrete, two 1-story additions, slag roof, wood block floors, rolled steel sash. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Bridge No. 70, west of Rutherford Station, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading R.R. Co., Reading Terminal, Philadelphia. Consists of extension to present structure, steel and concrete. Contracts for substructure to Reimard Bros., Bloomsburg, Pa.; superstructure to Bethlehem Steel Bridge Corp., South Bethlehem, Pa.

Refectory and Lower School Building, Harrisburg, Pa., \$50,000. Architects, Zantinger, Borie & Medary, Fifteenth and Walnut streets. Owners, Harrisburg Academy, Professor Brown, Harrisburg, Pa. Brick and stone, 3 stories, 50x117 feet, slate roof, steam heat, electric lighting. Contract awarded to W. S. Miller, Harrisburg, Pa.

Store, Apartments and Garage, 226-28 Adams street, Scranton, Pa. Architect, Jas.

A. Barrett, Connell Building, Scranton, Pa. Owners, Jas. A. Barrett & Harold Davis, Connell Building, Scranton. Brick, steel and terra cotta, 2 stories and basement, 31x51 feet and 40x80 feet, slag roof, steam heating, electric lighting, metal lath, ventilators, tile work, concrete and yellow pine floors. Contract awarded to Barrett Const. Co., Scranton, Pa.

Y. M. H. A. Building, South Washington street, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, 15 South Franklin street, Wilkes-Barre. Owners, Y. M. H. A., Wilkes-Barre, Pa. Brick, steel and terra cotta, 3½ stories, 45x140 feet, slag and tile roof, steam heating, electric lighting, hardwood and tile floors, dumb waiter, reinforced concrete work. Contract awarded to A. D. Thomas, Wilkes-Barre, Pa.

Industrial Plant, Essington, Pa. Architect, private plans. Owners, Westinghouse Electric and Manufacturing Co., Pittsburgh, Pa. Erecting shop, 1 story; machine shops (2), 1 story; foundry, 1 story; power house, 1 story; pattern storage building, 4 stories; total area of buildings, 320,000 square feet. Brick and steel, concrete and wood floors, composition roofs, rolled steel sash, steel doors. Contract awarded to Westinghouse-Church, Kerr & Co., 37 Wall street, New York City.

Family Houses (2), Harrison avenue, Scranton, Pa. Architect, L. Reisman, Dime Bank Building, Scranton, Pa. Owner, M. S. Madoff, on premises. Frame and stucco, 2½ stories, 38x52 feet, shingle roof, steam heating, electric lighting, hardwood floors, tile and marble work, dumb waiter. Contract awarded to Max Rubinowitz, 326 Hallstead street, Scranton, Pa.

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NEW JERSEY Construction News

Residence (alt. and add.), Mount Holly, N. J. Architect, Ralph E. White, 908 Pennsylvania Building, Philadelphia. Owner, Edward H. Lewis, Mount Holly, N. J. Frame, 1 story addition, 16x23 feet, slag roof, oak or pine floors. Architect taking bids, due January 22d. Jacob Myers Sons & Co., Witherspoon Building, Philadelphia, figuring. (Only bidder.)

Tea Room and Dwelling, Stone Harbor, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, Miss Mary E. Leeds, Stone Harbor, N. J. Frame, 2½ stories, 35x50 feet, shingle roof, electric lighting. Architect taking bids, due February 2d, at noon. The following are figuring: O. S. Ferree, W. L. Turpin & Sons, both of Stone Harbor, N. J.; Stewart L. Maines, Moorestown, N. J.; John Garretson, Cape May Court House, N. J., and Thos. G. Goslin, Wildwood, N. J.

Club House, Bowling Alley and Heater House, Carneys Point, N. J. Architect, private plans. Owners, E. I. du Pont de Nemours Powder Co., Wilmington, Del. Frame and shingle, club house, 1½ story, 41x96 feet, and 52x45 feet; bowling alley, 1 story, 40x91 feet; Heater house, 1 story, 10x15 feet, timber and corrugated iron, shingle roof, hot water heating, pine floors (electric work, plumbing, fixtures, hardware reserved). Owners taking bids, due January 27th. Driscoll Co., Stock Exchange Building, is figuring.

School Building, Browns Mills, N. J., \$12,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Pemberton Township, Pemberton, N. J. Frame, 1 story and basement, 76x52 feet, asbestos roof, steam heat-

ing, yellow pine floors, metal lath, fire doors, ventilators, hollow tile (heating reserved). Plans in progress. Will take bids about February 20th.

Residence (alt.), Bridgeton, N. J., \$20,000. Architects, Custer & Seltzer, 302 Market st., Camden, N. J. Owner, J. C. Schumaker, care of architect. Frame, 2½ stories, 35x28 feet, hot water heating, electric lighting. Plans in progress.

Barn, Machine Shed and Wagon Shed, Bridgeton, N. J., \$5,000. Architects, Custer & Seltzer, 302 Market street, Camden, N. J. Owner, J. C. Schumaker, care of architects. Frame and concrete, 2 stories, 26x40 feet, hot water heating, electric lighting, concrete and wood floors, sheds, 1 story, frame, 30x40 feet. Plans in progress.

Manufacturing Building, Second and Clinton streets, Camden, N. J., \$36,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Strandwitz & Scott, care of architects. Brick and concrete, 2 stories, 60x150 feet, slag roof, wing 18x80 feet (steam heating, electric lighting, elevator and plumbing reserved), metal lath, waterproofing, fire doors, ventilators, metal lockers, gasoline storage system. Architects ready for bids.

School (add.), Woodlynne, N. J., \$14,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Woodlynne, N. J. Brick, 2 stories and basement, 60x38 feet, slag roof, steam heating, combination lighting, metal lath, ventilators, metal window guards, gum floors, hollow tile work. Owners will take bids, due February 15th, at Woodlynne, N. J.

NEW JERSEY Contracts Awarded

Sunday School, Kenwood and Wildwood avenues, Camden, N. J. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Parkside Baptist Church, care Norman L. Smith, 1440 Kenwood avenue, Camden, N. J. Stone, 2 stories and basement, 60x79 feet, slag and slate roof, steam heating, electric lighting, pine and cement floors, (1) ventilator, tile work. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

Boxboard Plant Buildings (3), Third and Jefferson avenue, Camden, N. J. Architect, Jacob Orke Clark, 133 South Twelfth street, Philadelphia. Owners, MacAndrews & Forbes Co., on premises. Brick, 1 story, (2) 101x44 feet; (1) 97x56 feet, slag roof, spruce, plank and concrete oors, rolled steel sash, ventilators, rolling steel doors. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Erecting Shop (add.), Camden, N. J. Architect, private plans. Owners, Camden Iron

Works, Coopers Creek and Line street, Camden. Brick, steel and concrete, 1 story, 60x52 feet, slag roof, concrete oors. Contract awarded to Wm. Wrixford, 525 Market street, Camden, N. J.

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Maryland Construction News

Residence and Garage, near Elkton, Md. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Chas. K. Lennig, care architect. Stone and frame, 3 stories, 50x40 feet and 1½ stories, 30x24 feet, slate and slag roof (heating and lighting reserved), cement and pine floors, compo-board. Architect taking bids, due January 24th. The following are figuring: Reynolds & Hughes, 104 E. Saratoga street; Singer & Pentz Co., 600 Equitable Building, both of Baltimore, Md.; and Walter Miller, Elkton, Md.

Church (alts. and add.), Lanvale street and Fremont avenue, Baltimore. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Owners, First English Lutheran Church, on premises. Stone and brick, steel rolling doors, steam heating, electric lighting. Plans in progress.

Church (add.), Cokesbury and Montebello avenues, Baltimore, Md. Architect, Malcolm MacCallum, Aisla avenue, Lauraville, Md. Owners, Oxford M. E. Building Association, George A. Rossing, president, 317 Title Building, Baltimore, Md. Stone and stucco, brick and concrete.

Church and College Buildings, Guilford, Md. Architects, Maginnis & Walsh, Boston, Mass. Owners, Loyola College and St. Ignatius' Church, Rev. Wm. J. Ennis, president, Calvert and Monument streets, Baltimore. Stone, tile and slate roof, steam heating, electric lighting, steel and iron work, ornamental iron work, reinforced concrete, fireproofing, damp-proofing, plastering, painting, plumbing. Plans in progress. Too early for details.

Residence (alts. and add.), Melvale, Md. Architects, Mottu & White, 322 North Charles street, Baltimore. Owner, Edw. McC. Fisher, 926 Cathedral street, Baltimore, Md. Frame and stucco, hot water heating, electric lighting. Architects taking bids, due January 25th. The following are figuring: Cowan Building Co., 106 West Madison street; G. Walter Tovell, Eutaw and McCulloh streets; John Waters Building Co., 23 East Center street; W. E. Harn Co., 213 North Calvert street, Baltimore; Silvester Marshall, Owings Mills, Md., and C. Ernest Nichols, Laurel, Md.

Residences (12), North avenue, west of Hilton street. Architect, Edw. H. Glidden, Garrett Building, Baltimore, Md. Owner, Mrs. Julia H. Eichelberger, Morris avenue, Walbrook, Md. Stone, brick and stucco, 2½ stories, tile or slag roofs, hot water heating, electric lighting, galvanized iron work, plastering, painting, plumbing, tile work and hardwood floors. Builder, Allan H. Potts, 901 Cold Spring Lane, taking sub-bids on all lines.

Store Building, 1119-21 Cathedral street, Baltimore, Md. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owners, Baltimore Auto Service, Inc., Henry L. Rose, president, Chase and Cathedral streets, Baltimore, Md. Brick, 1 and 2 stories, 80x166 feet, slag or tin roof, electric lighting. Architects taking bids, due January 25th at 4 P. M. The following are figuring: Clarence E. Stubbs, Equitable Building; Price Concrete Const. Co., Maryland Trust Building; Consolidated Engineering Co., Calvert Building; John Waters Building Co., 23 East Center street; M. C. Davis, 902 East Thirty-sixth street; Cowan Building Co., 106 West Madison street; Charles L. Stockhausen Co., Gay and Water streets; Cogswell-Koether Co., 406

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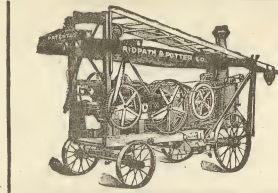
Residences (63), Baltimore, Md., \$119,000. Architect, private plans. Owners, E. J. Gallagher Realty Co., Munsey Building, Baltimore, Md. Brick, 2 stories, slab roofs, electric lighting. Owners taking sub-bids.

Maryland

Contracts Awarded

Residence (fire repairs), 821 Brooks lane, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Samuel Blum, 305 N. Gay street, Baltimore, Md. Brick, 2½ stories, tin roof, marbleoid composition floors, dampproofing, tile work, (finished floors, heating, electric work, metal weatherstrips, interior decorating reserved). Contract awarded to Frank Herbert, 2130 E. Baltimore avenue, Baltimore, Md.

Residences (26), Longwood street, Baltimore, Md. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore, Md. Owner, Mary E. B. Purnell, 718 Park avenue, Baltimore,



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Md. Brick, 2 stories, slag roof, steam heating, electric lighting. Contract awarded to Globe Realty Co., Winchester and Poplar Grove streets, Baltimore, Md.

Residence, Falls road, Baltimore, Md., \$6,000. Architect, A. Towne, care of Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, H. W. Turner, Maryland Casualty Building, Baltimore, Md. Frame, 2½ stories, slate roof or shingle roof, hot water heating, electric lighting. Contract awarded to Edward Pilet, 15 East Fayette street, Baltimore.

timore.

Warehouse, 12-14 North Paca street, Baltimore, Md. Architects, Walter M. Gieske and Frederick Thomas, Gunther Building, Baltimore, Md. Owners, Rosenbloom & Levy, 716-18 West German street, Baltimore, Md. Concrete and steel and brick, slag roof, electric lighting, freight elevator, metal covered frames, doors and sash, painting, skylights and ventilators. Contract awarded to J. L. Robinson Cont. Co., 218 East Lexington street, Baltimore, Md.

Miscellaneous Construction News

Residence (alt.), New York City, \$10,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 3 stories; slate roof, steam heating, hardwood oors, electric lighting. Plans in progress.

Club House, Bellevue, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Wilmington Trap Shooting Assoc., Mr. Galvin, secretary, Dupont Building, Wilmington, Del. Frame, 1 story and basement, 50x20 feet, shingle roof, electric lighting, wood floors, metal lockers, tile and marble work. Architect taking bids, due January 22d. The following are figuring: John E. Haley & Sons, 707 Tatnall street; H. P. Carlon, 2430 W. Thirteenth street; H. T. Reed, 2303 W. Seventeenth street; H. S. Lynch, 715 Tatnall street; J. Frank Owners, 1003 W. Fourth street, all of Wilmington, Del.

Residence, Seventeenth and Brinkle avenue, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owner, Wm. H. Whitton, on premises. Brick, 3 stories, 50x35 feet, shingle roof, hot water heating, electric lighting, hardwood oors, tile and marble work. Architects taking bids, due January 22d. John E. Haley & Sons, 707 Tatnall street; Wm. D. Haddock & Co., 804 Orange street; Ed. Johnson & Sons, all of Wilmington, Del., are figuring.

Apartment and Stores (alt. and add.), N. W. corner Eighth and Shipley streets, Wilmington, \$5,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick, stone and steel, 3 stories, 52x25 feet, tin roof, steam heating, electric lighting, wood oors. Plans in progress. Architect ready for bids in about one week.

Garage (alt. and add.), Tenth and Washington streets, Wilmington, \$10,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Studebaker Auto Co., Wilmington, Del. Brick, 2 stories, 105x45 feet, slag roof, steam heating, electric lighting, metal ceiling, concrete oors (elevator reserved). Architect will take bids in a few days.

Garage (alt.), Tenth and Shipley streets, Wilmington, Del., \$4,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, A. B. Rothacker, on premises. Brick and stone, 2 stories, 40x40 feet, slag roof, concrete oors, electric lighting. Architect taking bids, due January 17th. W. D. Haddock Co., 804 Orange street; A. S. Reed & Bro. Co., 815 Shipley street; C. J. Dougherty, 1809 Lincoln street, and Jos. Schunder, 600 Rodney street, all of Wilmington, Del., are figuring.

Warehouse, Fifteenth and Poplar streets, Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owners, New Castle Leather Co., Wilmington, Del. Reinforced concrete and brick, marble trimming, 2 or 3 stories, 204x104 feet, composition roof, metal lath, rolled steel sash, water proofing, fire doors, hollow tile, rolling steel doors (elevators, electric work, plumbing and heating reserved). Architect taking bids, due January 19th. F. W. Mark Const. Co., Finance Building; Pomeroy Const. Co., 1609 Ransstead street; Barclay White Co., 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; Turner concrete Steel Co., 1713 Sansom street, Philadelphia; J. A. Bader, and Realty Const. Co., Wilmington, Del., are figuring.

Warehouse, Fifteenth and Poplar streets, Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington, Del. Owners, New Castle Leather Co., Wilmington, Del. Reinforced concrete and brick, marble trimming, 2 or 3 stories, 204x104 feet, composition roof, metal lath, rolled steel sash, water proofing, fire doors, hollow tile, rolling steel doors (elevators, electric work, plumbing and heating reserved). Architect taking bids, due January 19th. F. W. Mark Const. Co., Finance Building; Pomeroy Const. Co., 1609 Ransstead street; Barclay White Co., 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; Turner concrete Steel Co., 1713 Sansom street, Philadelphia; J. A. Bader, and Realty Const. Co., Wilmington, Del., are figuring.

Offices and Store Building, Waynesville, N. C. Architect, J. Fletcher Street, 129 S. Fifth street, Philadelphia. Owner, name withheld. Brick, 1 and 2 stories, 50x80 feet, slag roof, hot water heating, electric light, hardwood oors, tile work. Plans in progress.

Residence, Eltingville Shore, State Island,

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.,** Tasker Street Wharf, Delaware River, Philadelphia.

INCLOSED PORCHES

For Winter and Summer

Specially designed to conform with the architecture of the residence. Special quotations on heating and lighting Inclosed Porches.

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Building Construction

That Satisfies Architects and Owners

1215 FILBERT ST., PHILADELPHIA

Allen streets, \$25,000. S. Sionsky & Co. (O), 933 N. Front street. Fred A. Havens (C), 831 N. Nineteenth street. Brick, 4 stories, 36x34 4feet, slag roof, steam heating.

Machine shop, D street, north of Erie ave., \$20,000. H. P. Eidman (O), Seventh and Glenwood avenue. Pomeroy Const. Co. (C), 1609 Ranstead street. Iron, 1 story, 60x200 feet.

Store and dwelling, 18186 S. Seventh street, \$1,375. Harry Goodis (O), 432 Moore street. C. N. Yacknetz (C), 1202 N. Seventh street. Repair fire damage.

Factory, 1219-21 Vine street, \$13,000. Wm. Davis (O), on premises. Daniel J. McNamee (C), 1621 N. Fifteenth street. Interior alterations; repairs.

Warehouse, 1033-35 Master street, \$600. V. D. Biaco (O), 1420 N. Twelfth street. G. De Marco (C), 1224 Christian street. Brick, 2 stories addition, 15x29 feet, slag roof.

Manufactory Building, 3970 Pulaski ave., \$1,000. Wahl Mfg. Co. (O), on premises. J. H. Daniels (C), 2631 Parrish street. Reinforced concrete roof.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And thererore is
A goodly thing to try.

—Ex.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.
—Exchange.

He would save the commission of the architect, but ruin the store.

N. Y. Architect, J. Fletcher Street, 129 S. Fifth street, Philadelphia. Owner, Capt. C. A. Furlong, Eltingville, State Island, N. Y.

Frame and plaster, 2½ stories, 30x50 feet, composition shingle roof, warm air heating, electric lighting, tile work. Revised plans in progress.

Miscellaneous Contracts Awarded

Power House, Fifth and Adams streets, Wilmington, Del. Architect, J. D. Thompson, Jr., Ford Building, Wilmington, Del. Owners, Jos. Stoeckle Brewing Co., on premises. Reinforced concrete and brick, 2 stories, 48x105 feet, reinforced concrete and slag roof, steam heating, electric lighting, metal sash, waterproofing, metal lockers, reinforced concrete

floors. Contract awarded to J. L. Bader & Co., Dupont Building,ilmington.

Factory (add.), 1009 W. Fourth street, Wilmington, Del., \$4,000. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Chas. Beadenkopf Co., on premises. Brick, 2½ stories, electric lighting. Contract awarded to A. S. Reed & Bro. Co., 815 Shipley street, Wilmington, Del.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Shop, 329-37 N. Randolph street, \$3,000. Pierce Butler Estate (O), Broad and Venango streets. A. B. Lyter (C), 324 N. Fifth street. Brick, 1 story, 50x75 feet, slag roof.

Dwelling, 733 South Fourth street, \$4,000. Mrs. Finkelstein (O), 511 Catherine street. J. Rose & Son (C), 5121 Brown street. Brick, 3 stories, 19x30 feet, slag roof, hot air heating.

Parish house, Carpenter and Lincoln Drive, \$23,000. Church of Epiphany (O), on premises. Wm. Gruhler (C), 219 E. High street, Philadelphia. Stone, 2 stories, 216x216 feet, slate roof, steam heating.

Garage, Eighth and Rising Sun avenue, \$305. H. J. McCabe (O), on premises. Fred Piccase (C), Randolph and Butler streets. Brick, 1 story, 12x18 feet, slag roof.

Office, Broad and Huntingdon streets, \$9,711. R. A. Weymann (O), Widener Building. Warren Moore Co. (C), Commercial Trust Building. Reinforced concrete, 2 stories, 114 x114 feet.

Brewery, Thompson street, west of Thirty-first street, \$650. John Betz Co. (O), Thirty-first and Thompson streets. Parvin Co. (C), 926 Stephen Girard Building. Brick, 1 story, 26x59 feet,

Garage, 3703 Brandywine street, \$1,000. Anthony Gallagher (O and C), 3716 Haverford avenue. Brick, 1 story, 50x80 feet, slag roof.

Storage house, Westmoreland and Witte

streets, \$15,000. David Lipton & Sons (O and C), on premises. Iron, 1 story, 210x285 feet.

Garage, 216 S. Forty-ninth street, \$350. Henry Miller (O), on premises. Isaac H. Days (C), 1613 N. Twelfth street, Philadelphia. Brick, 1 story, 13x10 feet, slag roof.

Dwellings (16), Amsbury street, east of Seventh street, \$48,000. Thomas Brown (O and C), Land Title Building. Brick, 2 stories, 15x28 feet, slag roof, hot water heating.

Garage, 2810 E. Venango street, \$500. Louis Goodavage (O and C), 3589 Richmond street. Brick, 1 story, 18x25 feet, slag roof.

Garage, Chestnut street, west of Fifty-fifth street, \$10,500. John J. O'Neill (O), 3835 Folsam street. John P. Fallon (C), 449 S. Sixtieth street. Stone, 2 stories, 18x36 feet, shingle roof.

Dwellings (5), 4502-4-6-8-10 N. Fifth st., \$12,500. J. Maguire (O and C), 5751 Hael avenue. Brick, 2 stories, 14x26 feet, slag roof, hot water heating.

Garage, 2245-49 Hunting Park ave., \$5,000. Saml Appelbaum (O), 805 Lierty Building. A. Hartman (C), 3411 Beach street. Brick, 1 story, 54x50 feet, slag roof.

Dwellings (2), Gilham street, east of Oakley street, \$6,000. John Burham (O), 346 Adams street. Michael Stevens (C), 910 Fanshaw street. Brick, 2 stories, 16x40 feet, slag roof, hot water heating.

Light manufacturing building, Front and

Our specialty is Portland Cement that will stick and pass the City Department. **DAVID FRANCE CO.,**
Tasker Street Wharf, Delaware River, Philadelphia.

Alterations and Additions

Bakery, 607 N. Fifth street, \$3,000. Emil Eppers (O), on premises. Geo. Kessler Cont. Co. (C), Drexel Building. Brick, 1 story rear addition, 18x57 feet, slag roof.

Store, 146 N. Third street, \$350. E. A. Bookmeyer (O), 424 alnut street. Wm. Wardolle (C), 216 Quarry street. Repairs.

Office, York road and Church lane, \$2,000. Texas Co. (O and C), Morris Building. Iron, 1 story, 10x15 feet.

Shop, Tioga and Memphis streets. Whitney-Fellker Co. (O and C), on premises. Iron, 1 story addition, 16x50 feet.

Garage (add.), Twenty-eighth and Sterner streets, \$420. Mrs. N. Reiter (O), 2762 N. Twenty-eighth street. M. H. Brown (C), 2714 N. Twenty-eighth street. Brick, 1 story addition, 14x16 feet. slag roof.

Store and dwelling, 807-09 S. Sixth street, \$1,500. L. Shaffer (O), on premises. Frank & Kaiser (C), 1522 S. Sixth street. Alterations, flush bulks.

Warehouse, 1517 Germantown avenue, \$650. R. Pereyra (O), 59 N. Third street, Philadelphia. Chas. Hoffman (C), 210 Dickinson st. Iron fire escape.

Engine house, Ninth and Westmoreland sts., \$750. Surpass Leather Co. (O), on premises. Walter Kidde (C), 140 Cedar street, N. Y. Concrete foundation for a 300 H. W. turbin.

Boiler House, Fifty-second and Grays ave., \$600. Tioga Steel & Iron Co. (O), Fifty-first and Grays avenue. Walter Kidde (C), 140 Cedar street, N. Y. Iron, 1 story addition, 50x13 feet, slag roof.

Store and dwelling, 4225 Lancaster avenue, \$650. Mrs. E. H. Coppin (O), on premises. James M. Holm (C), 5556 Arch street. New flush bulks, repairs.

Residence, east side State road, south of Filter street, \$1,650. Logan M. Bullitt (C), Torresdale, Pa. A. L. Hoffman (C), Andalusia. Frame, 1 story, 22x30 feet.

Dwelling, 759 Corinthian avenue, \$800. Miss Brattan (O), 759 Corinthian avenue. David Buims & Sons (C), Nineteenth and Brown streets. Hot water heating.

Storage building, 2200 to 12 Germantown avenue, \$1,000. Quaker City Chocolate Co. (O), Germantown and Susquehanna avenues. Harry Gill, Jr. (C), 2615 Germantown avenue. Repairs.

Coal storage, American street, north of Diamond street, \$2,000. Dungan-Hood Co., American and Susquehanna avenue. Harry Gill, Jr. (C), 2515 Germantown avenue. Build coal pockets.

Store, 1522 Chestnut street, \$2,500. Kayser & Allman (O), 1522 Chestnut street. John N. Gill Co. (C), 1215 Filbert street. Mezzanine floors.

Tenement house, 2011 North Twelfth st., \$2,000. Miss G. Griffing (O and C), on premises. General alterations.

Store and dwelling, Poquessing avenue and Bustleton pike, \$800. Adam McLane (O), Somerton, Pa. Wm. Bubeck (O), Somerton, Pa. Tin roof, repairs.

Store and dwelling, 1815 Columbia avenue, \$625. M. Nadler (O), 1633 N. Franklin st. Harry Slass (C), 1809 N. Seventh street. Flush bulks.

Dwelling, 1607 S. Eighth street. Mrs. A. Wollovitz (O), on remises. Brownsworth & Co. (C), 1611 Sansom street. Repairs.

Store, 14 S. Front street, \$1,300. Selig Co. (O), Thirteenth and Filbert streets. Lam

Building Co. (C), 1001 Wood street. Repair fire damages.

Saloon, northwest corner Eleventh and Columbia avenue, \$2,850. Geo. Lawess (O), on premises. G. Zeigenfus (C) 3809 N. Seventh street. Hot water heating, electrical wiring.

Stands, Thirty-fourth and Spruce streets, \$350. Commercial Museum (O), on premises. A. R. Raff Const. Co. ((C), 1635 Thompson street. Stands.

Store and dwelling, 1503 Clearfield streets, \$450. M. Acuff (O), on premises. Harry Rust (C), 19 S. Eighth street. Brick, 1 story front addition, 15x6 feet, bulk windows.

Garage (add.), 2012 S. Sixteenth street, \$300. C. P. Carpenter (O and C), on premises. Brick, 1 story, 15x14 feet.

Department store, 821 Market street, \$7,000. Strawbridge & Clothier (O), Eighth and Market streets. Stacy Reeves & Sons (C), 2011 Market street. Elevator shaft.

Store, 142 N. Eighth street, \$10,000. Pine Bros. (O), on premises. Smith-Hardican Co. (C), 1606 Cherry street. Brick, 4 stories, 20x110 feet.

Dwelling, 201 W. Chestnut avenue, Chestnut Hill, \$4,500. A. S. Weill (O), Land Title Building. Charles J. Platt (C), 1015 Arch street. Second story rear addition, 40x19 feet, repairs.

Factory, Fifth and Cherry streets, \$1,700. Wm. H. Horstman (O), on premises. Kruhel & Co. (C), 806 Spring Garden street. Low pressure steam heating.

Dwelling, Cemetery lane and Bustleton pike, \$2,500. Mrs. F. Snow (O), Somerton, Pa. Charles Ely (C), Somerton, Pa. Frame, 1 story, 28x36 feet, shingle roof.

Store and office, Rector and Main streets, \$3,200. U. G. I. Co. (O), Broad and Arch streets. F. G. Stewart (C), 1619 Sansom sts. Repairs to building.

Factory, 3252 Goodman street, \$1,500. D. N. Strand (O), 3340 N. Broad street. Chas. Parker (C), Philadelphia, Pa. Brick, 1 story side addition, 135x22 feet.

Dwelling, 7921 Ridge avenue, \$1,500. John Sloan (O), on premises. Geo. Robinson (C), 632 Rex avenue. Frame, 1 story, shingle roof, 24x29 feet.

Packing house, Delaware avenue and Cal-lowhill street, \$4,000. Swift & Co. (O), Ninth and Girard avenue. John N. Gill Co. (C), 1215 Filbert street. Repairs.

Dwelling, 2904 N. Lawrence street, \$500. Henry Hauptfurer (O), 2900 Lawrence street. W. G. Janes (C), 2927 N. Fifth street. Brick, 1 story rear addition, 10x15 feet, slag roof.

Paint shop, Woodbine avenue and P. RR. Herman Wendell (O), Overbrook, Pa. M. M. Young (C), Overbrook, Pa. Brick, 1 story addition, 32x16 feet, slate roof.

Bank, 523-25 Chestnut street, \$500. Real Estate Title and Ins. Trust Co. (O), on premises. Robert Haben (C), 261 S. Twenty-first street. Alterations.

Dwelling, 1120 McClellan street, \$500. Jas. Julians (O and C), on premises. Brick, 2 stories addition, 12x15 feet, slag roof.

Dwelling, 864 N. Randolph street, \$650. John C. Cadbury (O), 402 Chestnut street. A. P. Fraim (C), 319 Market street. General repairs.

Store and dwelling, Nineteenth and Titan streets, \$400. Sol. Krauss (O), 512 S. Twentieth street. N. Rosinsky (C), 520 Dickinson street. Flush bulks, repairs.

BUILDING ZONE LAW.

In many civilized countries a man is by law and good conscience required to so use his property as not to injure his neighbor's property, light, air and health. This is not only regard for the rights of neighboring owners and their properties, it is an acknowledgment of the community interest by the public in such properties; in fact, in all that pertains to the persons and properties within its jurisdiction.

But this has not been either the law or the common logic of American cities and American property owners. For some insecurable reason, attached possibly to the fictional traditions of the term "lierty," we have deemed ourselves helpless to restrict the use of all property and the exercise of human liberty to such a rule of private conduct as common sense and the principles of equity and the public weal should dictate. The most brutish owner of real property has often been permitted to violate a neighborhood or destroy a neighboring property y arrogantly or wickedly transforming his own property into a nuisance or something worse. He has also been permitted to employ his properties for purposes avowedly villainous! And the great cities of this too free land have permitted themselves to be built into heterogeneous masses of intensified unsightliness—a menace to private security and to public health.

But the worm has turned!

New York City has finally done in the year 1916 what it should have done before the Civil War.

It has enacted a Building Zone Law—a law in which every citizen has a vital interest.

When will other American cities under take reforms that all realty owners will welcome?

—"Realty."

FROZEN WATER PIPES.

Many winter fires are caused by ill-advised attempts to thaw frozen water pipes. A burning match, torch or open flame of any description should never be employed for this purpose. To wrap the pipes with oil-soaked rags and set them on fire is worse than folly; it is incendiarism. Pipes are almost invariably adjacent to walls or partitions where there is an ascending current of air to feed and spread a flame. Even if the flame does not start a fire its sudden local heat may cause the pipe to break and flood the premises with water.

Wrap the frozen section of the pipe with cotton cloth and pour hot water upon it (even if the hot water must be obtained from a neighbor) until the ice in the pipe gives way. Rags on the floor at the base of or under the pipe will absorb the waste water. If the freezing is too severe to yield to this treatment send for a plumber.—"National Fire Protection Association Bulletin."

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Artesian Wells.
 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
 Ridpath & Potter Co.....Bourse Bldg., Phila.
 John B. Rulon.....1355 Colwyn st., Phila.

Artists' and Architects' Supplies.
 Chas. H. Robbins.....125 S. 11th st., Phila.
 Warren-Knight Co.....136 N. 12th st., Phila.
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Blue Prints.
 Chas. H. Robbins.....125 S. 11th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.

Blue Print Paper.
 Chas. H. Robbins.....125 S. 11th st., Phila.

Brick (Face, Etc.).
 O. W. Ketcham.....Builders' Exchange, Phila

Brick Renovating.
 Adolph Christensen.....1433 Brown st., Phila.

Builders.
 Graham-Campion Co.....Heed Bldg., Phila.
 Hogg Construction Co., Inc.,
 1634 Sansom st., Phila.
 Mitchell Bros.....2125 Race st., Phila.
 Pomeroy Const. Co.....1609 Ranstead st., Phila.

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 P. H. Fairlamb Co.....115 S. 30th st., Phila.
 David France Co.,
 Tasker st. wharf, Delaware River, Phila.

Cement.
 P. H. Fairlamb Co.....115 S. 30th st., Phila.
 David France Co.,
 Tasker st. wharf, Delaware River, Phila.
 Samuel H. French & Co.,
 4th and Callowhill sts., Phila.
 Lehigh Portland Cement Co., Penna. Bldg., Phila.

Cement Colors.
 Samuel H. French & Co., 4th and Callowhill sts.

Columns (Metal).
 Pearce Fireproof Co.....1345 Arch st., Phila.

Composition Flooring.
 Philadelphia Mineral Flooring Co.,
 5632 Summer st., Phila.

The Marbleoid Co., Pennsylvania Bldg., Phila.

Dampproofing.
 The Barrett Co.....New York City and Phila.

Door Hangers.
 Grant Pulley and Hardware Co.,
 3 W. 29th st., N. Y., & Land Title Bldg., Phila.

Drawing Materials.
 Charles H. Robbins.....125 S. 11th st., Phila.
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Electrical Specialties.
 Large-Dail Mfg. Co.....606 Cherry st., Phila.

Electrical Construction.
 Baird-Osterhout Construction Co.,
 1620 Chancellor st., Phila.

Electric Lighting, Power and Appliances.
 Philadelphia Electric Co.,
 10th and Chestnut sts., Phila.

Elevators.
 A. B. See Electric Elevator Co.,
 Land Title Bldg., Phila.

Engine Repairs.
 H. B. Underwood & Co., 1025 Hamilton st., Phila.

Engineers' Supplies.
 Charles H. Robbins.....125 S. 11th st., Phila.
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Fences.
 Anchor Post Iron Works,
 Real Estate Trust Bldg., Phila.

Fire Alarm Systems.
 Rope Fire Escape Co.....1602 Market st., Phila.

Fire Doors.
 Merchant & Evans Co.,
 2035 Washington ave., Phila.
 Phila. Fire Retardant Co., 1614 Cherry st., Phila.

Fire Escapes.
 Rope Fire Escape Co.....1602 Market st., Phila.

Fire Gongs.
 Rope Fire Escape Co.....1602 Market st., Phila.

Fireproofing.
 Consolidated Expanded Metal Co.,
 2200 Arch st., Phila.
 Pearce Fireproof Co.....1345 Arch st., Phila.

Floor Plates.
 Alan Wood Iron and Steel Co.,
 Widener Bldg., Phila.

Furnaces.
 Abram Cox Stove Co.,
 American and Dauphin sts., Phila.

Furnaces and Ranges.
 Borden Stove Co.....118 N. 2d st., Phila.
 Abram Cox Stove Co.,
 American and Dauphin sts., Phila.
 Henry M. Miller.....46-48-50 N. 2d st., Phila.
 Richardson and Boynton Co., 1342 Arch st., Phila.

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 United Gas Improvement Co.,
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 Holmesburg Granite Co.,
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Heating Boilers.
 Richardson and Boynton Co., 1342 Arch st., Phila.
 H. B. Smith Co., S. W. Cor. 17th & Arch sts., Phila.

Insurance.
 Harris J. Latta.....Penna. Bldg., Phila.

Lockers.
 Edward Darby & Sons Co., Inc.,
 233 Arch st., Phila.

Lumber.
 Howard Ketcham.....3d and Girard ave., Phila.
 James E. Tague & Co.,
 10th and Columbia ave., Phila.

Marble Mosaic.
 Belfi Bros. & Co.....1923 Market st., Phila.

Metal Lath.
 Consolidated Expanded Metal Co.,
 2200 Arch st., Phila.
 Pearce Fireproof Co.....1345 Arch st., Phila.

Mill Supplies.
 Charles Bond Company.520 Arch st., Phila.
 The Fairbanks Co.....7th and Arch sts., Phila.

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 Samuel H. French & Co.,
 4th and Callowhill sts., Phila.

Painters.
 C. Albert Kuehnle.....11 S. 16th st., Phila.

Paints and Varnishes.
 Felton, Sibley & Co.....136 N. 4th st., Phila.
 Samuel H. French & Co., 4th and Callowhill sts.
 Eugene E. Nice.....268 S. 2nd st., Phila.

Pipe Fittings and Valves.
 The Fairbanks Co.....7th and Arch sts., Phila.

Plaster.
 N. J. Pulp Plaster Co.....Trenton, N. J.

Plumbing Fixtures.
 Fleck Bros. Co.....44 N. 5th st., Phila.
 James A. Vogel Co.....Wilmington, Del.

Preservatives (Wood and Concrete).
 The Barrett Co.....New York City and Phila.
 F. E. Sagendorph....24th and Walnut sts., Phila.

Radiators.
 H. B. Smith..S. W. Cor. 17th and Arch sts., Phila.

Ranges.
 Borden Stove Co.....118 N. 2d st., Phila.
 Henry M. Miller.....46-48-50 N. 2d st., Phila.

Refrigerators.
 Borden Stove Co.....118 N. 2d st., Phila.
 Henry M. Miller.....46-48-50 N. 2d st., Phila.

Roofing.
 The Barrett Co.....New York City and Phila.

Roofing Slate.
 C. F. Shellenberger...Builders' Exchange, Phila.

Roofing Tile.
 O. W. Ketcham.....Builders' Exchange, Phila.
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Sash Pulleys.
 Grant Pulley and Hardware Co.,
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Terra Cotta (Architectural).
 O. W. Ketcham.....Builders' Exchange, Phila.

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 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
 Ridpath & Potter Co.....Bourse Bldg., Phila.
 John B. Rulon.....1355 Colwyn st., Phila.

Tile and Terrazza Work.
 Belfi Bros. & Co.....1923 Market st., Phila.

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 Merchant & Evans Co.,
 2035 Washington ave., Phila.

Wall Board.

Ceil Board.
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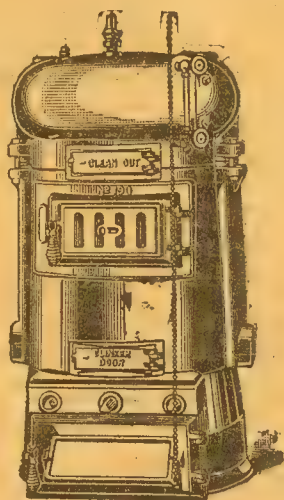
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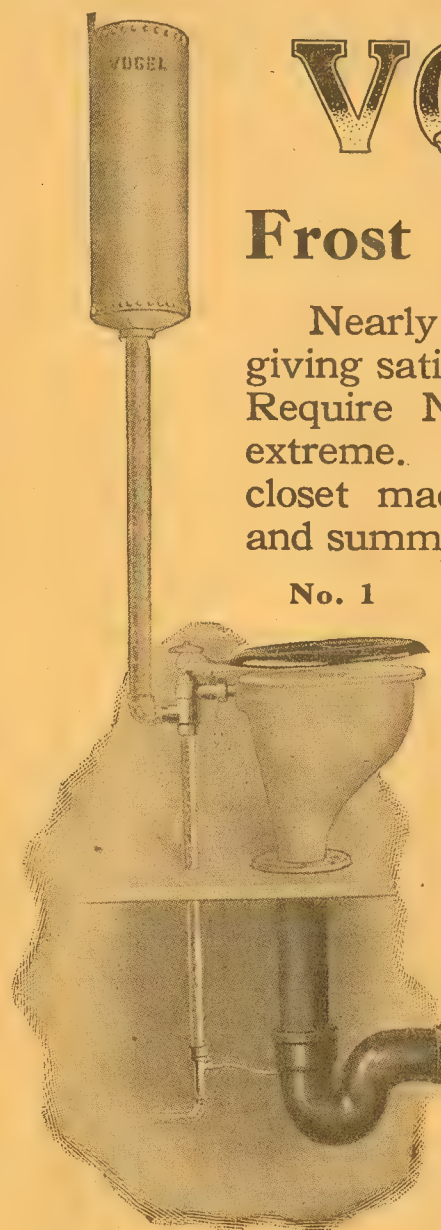
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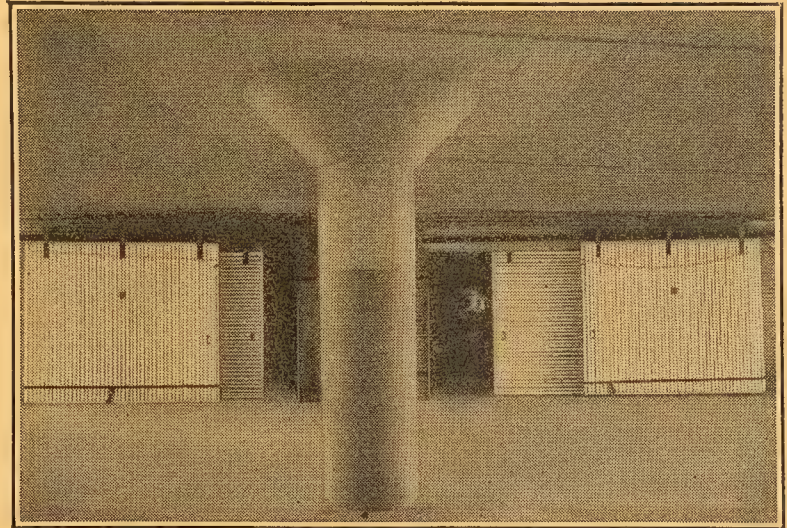
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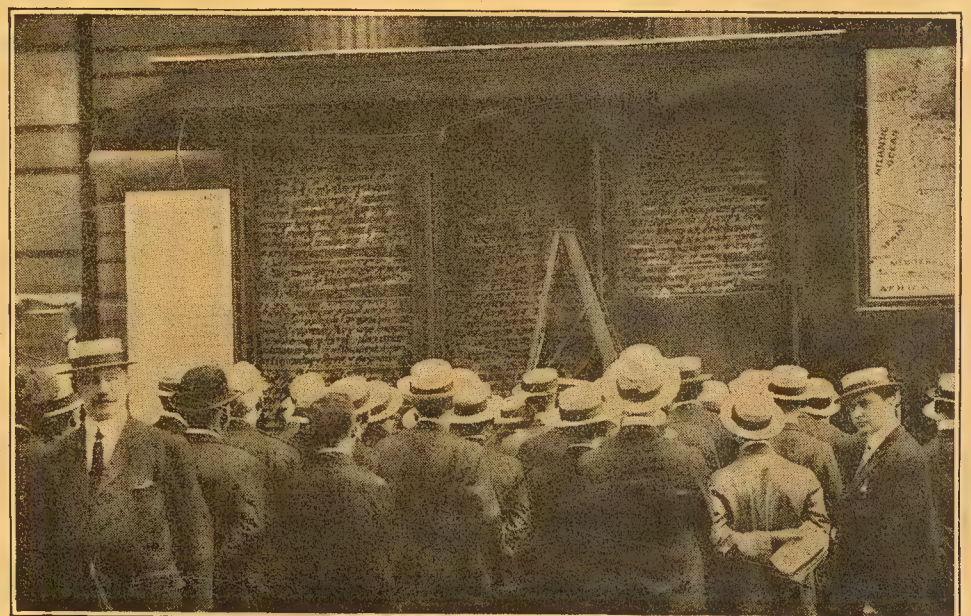
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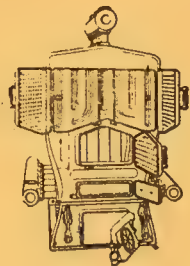
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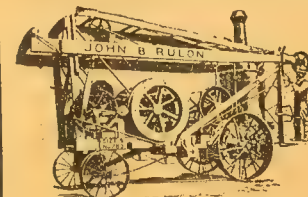
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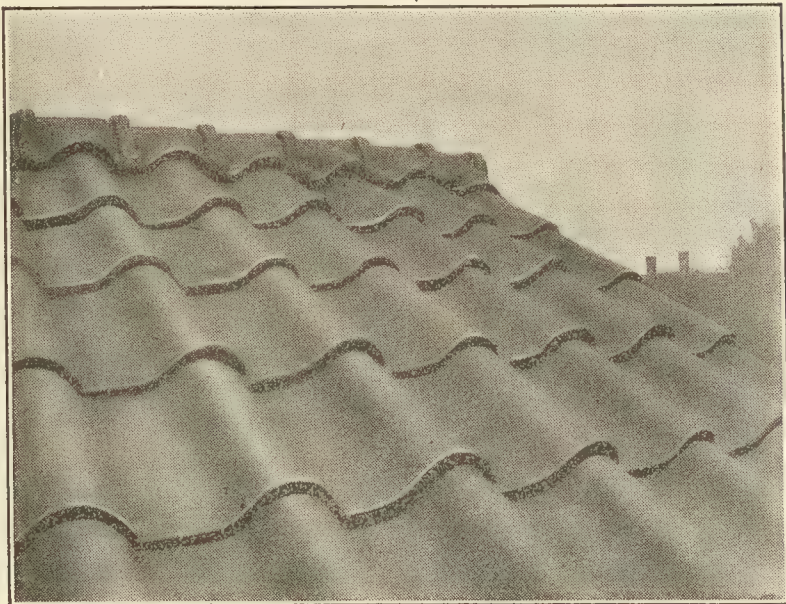


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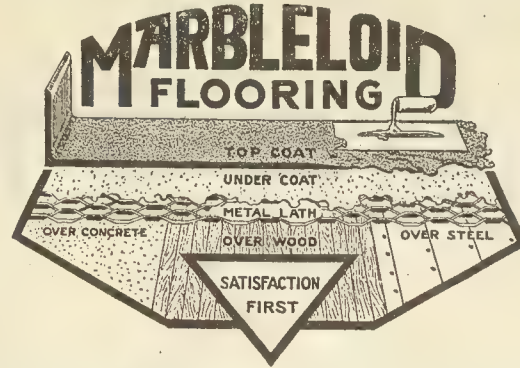
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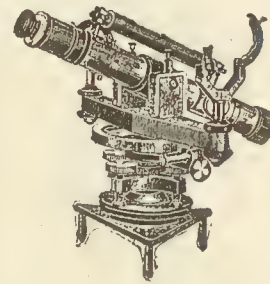
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BUILDERS' GUIDE

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VOLUME XXXII
Number 5

PHILADELPHIA
January 31, 1917



As The Editor Sees It



NEW YORK City is taking up the question of the establishment of set-back lines in connection with the laying out of street systems in at present wholly undeveloped or suburban residence sections.

It is claimed that the use of the set-back plan would in certain cases very greatly reduce street opening and paving costs to be borne by the property owners, and also reduce future street widening expense both to the owners and to the city. Mr. Whitten, Secretary of the New York Board of Estimate, states in his report that:

"New York City has made little use of a method which is coming to be recognized as essential to good street planning, namely, the establishment of set-back lines. The set-back line secures on certain streets a uniform set-back of buildings from the street line; that is, the owner is compelled to leave a yard or court across the front of his lot. He may use this yard for any private purpose but may not build upon it.

"In a private residence section a uniform set-back from the street line increases the attractiveness of the section and adds to the health and comfort of the inhabitants. It improves light and air conditions; makes possible the front lawn with trees and shade; removes the dwelling further from the noise, fumes and dust of the street. Where residences are uniformly set back from the street without the establishment of a legally binding set-back line, each owner is at the mercy of his neighbors. A voluntary set-back of this kind is often worse than no set-back at all. A single owner by disregarding the set-back line may ruin the entire block.

"Purely local residence streets having a set-back line can be permitted a narrower width than could otherwise be allowed. This reduces development ex-

penses, not only in its economy of land but more markedly in the decreased outlay for paving. With a 10-foot set-back a standard 60-foot street might be reduced to 40 feet. This might be adequate for streets under 800 feet in length if developed with single family houses. If later the single family houses were replaced by three or four-story apartments, the street could easily be widened to 60 feet to meet the increased traffic requirement incident to the more intensive housing.

* * *

THE existence of the set-back line will permit the economical widening of traffic arteries whenever traffic needs require. It introduces a measure of adaptation and elasticity in street design that is of immense importance in view of the almost prohibitive expense of widening a street once laid out and improved.

"The fixing of the set-back line now is the only practical method by which the widening of many traffic arteries can be secured in the future when greater width will assuredly be required. These arteries are now residence streets and the houses have been set back in order to provide lawn and shade and to remove them from the dust, fumes and noise of the street. They cannot be widened at present, as the cutting off of the front lawns would in large measure destroy the value of the dwellings.

When, however, traffic has so increased that the street must be widened it is more than likely that the street will be no longer desirable for private residence purposes and the private dwellings will be replaced either by apartments or by business buildings. The set-back line can therefore be established while the future traffic thoroughfare is still a residence street, with advantage to all owners, and when the time comes to widen

the street to meet traffic needs, the set-back can be taken for street purposes, and this, too, will be to the advantage of the owners. By thus imposing the set-back line and then widening the street at the very time that these things can be done with the greatest advantage both to the owners and the city, the traffic artery can be secured at a minimum expense.

* * *

THE establishment of set-back lines will serve to supplement in the effective way the Building Zone plan recently adopted. One of the main purposes of that plan, that of securing more open space about dwellings, will be directly furthered by the set-back line.

"In Washington, D. C., and in a number of the cities and towns of Connecticut and Massachusetts, set-back lines are established under procedure similar to that used in the laying out, opening and acceptance of streets. In Massachusetts, Boston has made considerable use of the set-back line, but the greatest progress has probably been made by the town of Brookline. As to new streets, that town has adopted the policy of making the establishment of a set-back line a condition precedent to the acceptance of the street by the town. The set-back lines established vary from five to twenty feet, the average being about ten feet. The town has also established set-back lines on a considerable number of streets already opened and improved.

"Although the city's present powers of condemnation and assessment for street and other purposes are apparently quite broad, some legislation may be required fully to carry out a set-back line program. The set-back line procedure should follow in a general way the present methods as to the laying out, opening and acceptance of streets. Set-back lines

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should be laid down, where appropriate, as a part of the tentative and final maps submitted by the borough authorities and approved by the Board of Estimate and Apportionment. When the street is opened the opening proceeding should include the establishment of the set-back line. The establishment of the set-back line as laid out on the city map should be a condition precedent to the acceptance of the street by the city; or to the approval of the map of a land subdivision for record. In parts of the city where no map has been approved the acceptance of streets and the approval of land subdivisions should be subject to the establishment of set-back lines wherever reasonable and appropriate.

* * *

A street once established is one of the most permanent and unchangeable features of the city structure," concludes Mr. Whitten. "Buildings have come and gone, but the street lines of Lower Manhattan have retained most of their original idiosyncrasies. This, too, in spite of the fact that the burden imposed differs greatly in character and magnitude from any that could have been contemplated at the time these streets were opened. This points to the desirability of introducing adaptability and elasticity in street design. The set-back line is a means of securing such adaptability and elasticity in a considerable measure.

"When we consider the practical impossibility of materially changing the street system once established and improved with expensive buildings and when we consider, too, how imperfectly we can foresee the demands that will be made upon the street system even fifty years hence, the importance of making the greatest possible use of the set-back line as the most effective means of securing adaptability to increasing or changing street requirements is apparent.

"Prior to consolidation set-back lines were established on a number of streets in Brooklyn by special act of the Legislature. In suburban developments it is now quite customary to establish set-back lines through a restrictive covenant in the deed—usually for a limited period of years, but sometimes running with the land. In many other cases the set-back is established by voluntary action and its retention is dependent on the will or whim of each individual owner. The city should take advantage of the opportunity afforded by existing voluntary and temporary set-backs to secure the future economical widening of streets where needed and to secure the permanent retention of a reasonable and appropriate open space between buildings."

THERE is a strong probability that a new plan of taxing real estate, one based upon scientific methods of arriving at assessable values, will be among the new legislation at Harrisburg this session. A bill recently introduced in the Massachusetts Legislation by William A. Bartlett is to be, it is said, the model after which Pennsylvania Legislation on the subject will pattern.

This measure is described in "Practical Politics" as framed for the purpose of introducing in the State of Massachusetts "a scientific system of assessing real estate to prevent collusion between assessors and big corporations or others." The Bartlett bill is said to be "the most comprehensive taxation measure ever filed for the consideration of the Legislature of Massachusetts." It provides in the main for accurate measuring of all lots and buildings, and for the establishing of assessing values which shall apply to all property in the same territory. The author of this measure is quoted as saying "that the assessing of real estate now is purely a matter of guesswork and the big corporations and those who are friendly with assessors generally get the better of this guessing, to the disadvantage of the small property holder."

* * *

THE Bartlett bill provides for the separate assessment of land and buildings, and in this respect it is following the lead of most of the great cities of the country with the exception of Philadelphia. Even a town of the size of Trenton, N. J., has adopted the plan of dual assessments, which has so many points to recommend it that it is really surprising it was not universally adopted years ago. There is nothing in common between land and buildings. Indeed, the factors which enter into the consideration of the value of land and buildings are so opposed to each other that nothing but confusion and inaccuracy can result from any attempt to combine them, as is done or is sought to be done in the appraisal of a property as a whole. Land, with the exception of fluctuations in value, due mainly to the shifting of population, always increases in value with the inevitable growth of population, while a building, however well constructed, begins to deteriorate in value from the moment it is finished, even earlier, and in the very process of construction, as all builders know. These two irreconcilable attributes of land and buildings are sufficient in themselves to induce separate consideration of them in the work of appraisal, whether it is for the purpose of fixing a just selling price or fair valua-

tion for taxation purposes, both objects, indeed, being practically identical.

* * *

REPRESENTATIVE BARTLETT when he describes antiquated methods of fixing assessments as "largely guesswork" is not far wrong. They could not be much else. They were nearer right forty years ago than they are today, but they were more tolerable, and they are still accepted or tolerated in small and growing communities, where the value of real estate has not yet begun to be standardized as it has in the large cities. There is not much difference of opinion among real estate brokers, property owners or assessors as to the value of property, for instance, on Market street between Tenth and Juniper streets, but great differences of opinion will often be found on the value of property in sections of the city where real estate values have not been subjected to the processes of analysis and discussion which many sales of real estate at very high figures in the central section have evoked in recent years.

The separate consideration of land and buildings as provided by the taxing system of New York and many other large cities, which Representative Bartlett desires to see enforced all through Massachusetts, is not a complete remedy for all the inequalities and injustices of which the taxpayer rightly complains, but it is distinctly a step in the right direction, as many communities have recognized, once they have adopted it. It has the one great merit that it compels analysis on the part of the assessing power and invites it on the part of the owner, and with a closer and more analytical study of the value of grounds as distinct from buildings many of the inequalities complained of by the taxpayer will automatically disappear.

* * *

THE Zone idea seems to be growing in public favor. Commenting on a decision of the United States Supreme Court upholding the "billboard ordinance" of Chicago the Philadelphia "Evening Bulletin" remarks:

"In substance the ordinance prohibits the maintenance of billboards in residential squares or blocks, except by the consent of the civic authority and recognizes the right of protest on the part of the neighborhood. The Supreme Court upholds the contention that the billboard may be a nuisance within the definition of the law, and though its offence may be only to the eye, an individual may be prohibited from utilizing his property to the detriment of the neighborhood interest.

"The broader significance of the Court's decision is in the recognition of the neighborhood right to protect itself

against all nuisances, even if they cannot be identified as positively menacing to public health or safety, carrying with it an intimation that there is what may be described as a right of comfort and of decency and of residential conditions which may be defended against invasion.

The authority of zoning commissions to define and restrict residential districts rests on this principle. If it were fully recognized there would be no occasion to argue whether pigs or piggeries were healthful. A noisy garage would not be permitted at will to disturb the sleep of

an otherwise quiet community.

In effect, the decision would seem to recognize the theory that after a section of a city has become established as a residential district and people have been induced to come there and have invested in homes, it is beyond the prerogative of any individual owner of property to change his mind and purpose and do what he pleases with his possessions, regardless of the rights which his neighbors have acquired in good faith and have enjoyed for such a period of years as to be regarded as vested and not ruthlessly alienable."

the rate of \$128 a ton. The McClintion-Marshall Company bid \$136.60 a ton.

* * *

State Senator Edwin H. Vare received a contract from Director of Public Works Datesman, in the shape of an award covering a concrete sewer and all other preliminary work in connection with elevating the railroad tracks on South Twenty-fifth street, part of the South Philadelphia improvement plan. The contract price is \$230,998.20.

Besides constructing the sewer, Senator Vare will lay pipe and wire connections underground, and grade and pave Twenty-fifth street and adjacent thoroughfares affected by the grade crossing removal work. He was the lowest of a half dozen bidders. The next lowest bid was \$248,000.00, by the McNichol Paving and Construction Company.

* * *

The Metal Club, of Philadelphia, composed of the wholesale distributors and manufacturers of tin plate, held its annual banquet at the Bellevue-Stratford on Thursday evening.

* * *

The Walnut Street Business Association will award silver cups for the finest displays in the observance of Municipal Flag Day, March 27th. One will be awarded to the business organization whose members make the finest display of city colors, and the other to the firm making the best individual display. Mayor Smith will head the committee of judges.

EDITORIAL NOTES

The Philadelphia Chapter, A. I. A., and the T Square Club have issued a circular of information for the twenty-third architectural exhibition to be held in the galleries of the Art Club, March 7th to March 25th. The committee in charge calls for exhibits consisting of drawings, models and enlarged photographs of executed or proposed work, illustrative of structural, decorative and landscape architecture; sketches and paintings of decorative subjects, and executed work in applied arts. Entry slips must be received by Wednesday, February 7th, and exhibits must be ready for collection not later than Wednesday, February 28th. For further information write George Howe, chairman, 205 S. Juniper street.

* * *

Nearly four-fifths of the men injured in the state's industrial establishments during the last year have been cured within a period of two weeks after the accident by proper medical attention, according to Harry A. Mackey, chairman of the Workmen's Compensation Board, who spoke before the Philadelphia Safety Council at the Franklin Institute.

"Of the 255,722 persons reported injured to the Bureau of Labor Statistics, nearly 200,000 men have been so successfully treated by free medication that their injuries have not become compensatable," said Mackey. "This is the biggest thing which the compensation system has done."

During the year which closed on January 15, 1917, 2587 men were killed in the course of their employment. Agreements or awards covering 58,189 cases were approved by the compensation board. There was paid out during the year \$1,355,399.43 for disability, with 1308 death claims allowed by the board. These claims provide for the ultimate payment of \$3,122,450 for the dependents. During the year there has been

actually paid out to dependent widows and orphans of men killed in industry \$166,609.59.

* * *

Here are the twelve commandments for business success as laid down by Frank R. Chambers.

1. Don't think success means making money.
2. Don't play office politics.
3. Always have a sense of humor.
4. Don't fear criticism.
5. Have faith in higher things and come up to them.
6. Don't be jealous.
7. Don't be mastered by dislikes.
8. Don't do the easiest things because it is easiest.
9. Don't like anyone too well.
10. Keep physically alert.
11. Always do more than you are paid for.
12. Criticise yourself.

* * *

A joint resolution providing for appointment by the Governor of a commission of nine to arrange for the holding of an international exposition at Philadelphia in 1926 in celebration of the 150 anniversary of American independence was introduced in the House at Harrisburg by Representative James A. Walker, Philadelphia. It carries an appropriation of \$10,000 for preliminary expenses.

* * *

The first step in the development of the Philadelphia Navy Yard as the biggest naval shipbuilding plant in the country was taken when bids were opened in Washington for the construction of a crane runway for the new building slip. Plans for the slip will be ready in about six weeks.

Only two bids were submitted for the construction of the crane runway. The American Bridge Company was the low bidder, their price being \$640,000, or at

BUILDERS' GUIDE

FORMERLY

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BUILDING COMMENTS

Specializing.

Some contractors prefer jobbing work—others like house jobs best, still others want large jobs.

It's all as they get used to it. To the contractor who is accustomed to large jobs, jobbing work is difficult and hard to handle.

His mind has been set on large things, so he says, and yet is not the large thing made up of many "petty little things."

Really would he not be better off if he would get used to these "little things."

The chances are he don't watch them close enough. The jobbing contractor makes a good living on just what the big job contractor avoids.

Maybe he lets a lot of good money slip through his hands just because he can't set his mind on "little things."

To fail on the little things is to fail on the big things.

Estimating.

There are four things to think of and to include in estimating each and every job.

- 1—Materials.
- 2—Labor.
- 3—Overhead.
- 4—Profit.

The value or cost of the materials in a job is not hard to get.

If you have a time-keeping system the labor cost is not difficult to determine.

The question of overhead is necessity and too often forgotten.

How much it costs you to do business is important to know.

The man whom you do work for should pay your overhead expense, and then on top of all a profit should be added.

The contractor, knowing the first three things, has his exact cost, and the profit depends on what you think you should have.

Don't fail to consider—materials—labor—overhead—and profits.

Then you will succeed.

Losses and Profits.

The contractor who sublets all his work and then adds the total of the subcontractor figures a measly 10 per cent. as his profit, will not make much headway—nor money either.

The contractor who does most of the work on the job—subletting only parts of it—and who adds but a ten per cent. to the total cost without adding an "overhead expense" cannot make money.

Manufacturers in all lines are learning that the overhead is a part of the cost—they formerly thought this should be deducted from the profits.

Frequently they found that the overhead was greater than the profits—which meant losses.

Things are changing.

Are they being changed in the contracting business?

How do you figure?

Are you doing it on the new plan?

Clean Up That Job.

How often do we see contractors holding up the settlement of a job in not completing it.

There is some little thing still to do—not much but enough to call the job uncompleted or the owner has found fault with some part of the work. It's just a little thing—it must be done sooner or later to get all the money due, but the contractor has become peeved, he don't think it's part of the contract, and don't see why he should do it. He would rather lose all he has coming than to give in to the owner—and fix up the small thing that would cost him little.

What nonsense.

Who loses? Why, no one but the contractor. Some of the owner's friends soon learn of it and it gets abroad.

Does this help the contractor get more jobs?

Well hardly—it costs him a reputation for business ability.

Friendships.

Doing business with friends is a rather delicate proposition.

If we can't make a profit on our friends' business where shall we make it?

He would not be much of a friend—who expected you to lose money or come out even on a job you did for him.

Have a friend in the hardware business. Need a knife. I go to him expecting he will sell me the knife at cost.

Why should I think this?

Why should he not say: "Well, he is a friend of mine he ought to pay me a greater profit."

He has just as much right to think that as I have to feel that he should sell me cheaper.

So the best way to sell your friend is to put him on the same basis you do the stranger who enters your place.

Let your friend pay you a profit—and you pay him one.

Don't Take On Too Much Work.

An old Building and Loan Association secretary says—"that when he sees a contractor getting a lot of jobs while other contractors have little to do, he watches that fellow very closely for he knows that he must be low to get the many jobs, and has observed that a contractor with a lot of work on hand can't build as cheaply as can the one who has one building and works with his men on the job."

Now there is a good deal of food for thought in that statement.

Men work better when the boss is around. They accomplish more because the boss is there to give information and tell what is to be done next.

Workmen will do ten per cent. more work when the contractor is working with them—and ten per cent. less when he is not there.

This means that you are ahead twenty per cent. on payroll when you hang around with your men.

The real money making contractors are those who take one joke at a time, work with their men, getting a day's pay for themselves out of the job and then find when the building is finished that they got more for the job than it cost—which means they get their living and have money in the bank.

Your Competitor's Rights.

How often do we feel that our competitor has no right to exist and should quit business. And all the time he is thinking the same about us.

And thus the position of both is the same, and each has the same right to live and grow as the other.

The only thing to do, therefore, is to make the best of the situation and not make it hard for yourself in making it hard for him.

To get out and fight him on every job is doing yourself much harm, for in making your price away low so he does not get the job gives you a lesser margin than you are entitled to.

Should he still get the job away from you, it only establishes a low price basis, and the owners of the jobs get your profits.

Only one man can get the contract. If he gets one at a good price the chances are you, too, will get one at a profit making price.

We so often see that the contractor known as "the high price man" gets along very well and has money to pay his bills.

There is more honor and more profit in being classified as a high price good work contractor than in being the low price low grade kind.

Insist upon Details.

Where details are to be provided, it is not good policy to figure on the job without having them at the time.

No estimator is good enough guesser to hit it right, and it is not fair to the contractors or material men to expect them to interpret the details and make accurate proposals.

To say that the architects have a motive in selecting estimate on uncompleted drawings would not be correct, but it is easy to see that a few architects are against having plans misconstrued.

There is a case in mind where the details had not been provided until after the work had been let. The details were more elaborate than would be expected, and the architects was criticised for not providing details in advance. His reply indicated that his motive was dishonest, for he stated that the work would be figured too high if the details were made beforehand, and thus do the contractors and material men suffer, for the architect places himself in as the arbitrator and his word is final.

This, of course, will be corrected as soon as all contractors decline to figure only where information is complete when proposal is made.

Let that time be soon.

—E. P. Hoerr, in "National Builder."

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Queen Lane Manor, Philadelphia, \$3,000. Architect, Samuel D. Hawley, 2d, Queen Lane Manor, Philadelphia. Owner, name withheld. Brick and plaster, 2½ stories, 25x46 feet, slate roof hot water heating, electric lighting, hardwood floors, tile work. Plans in progress. Architect will be ready for bids in a month.

Sewers and Sewage Disposal Plants, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Dept. of Public Works, Geo. E. Datesman, director, room 416, City Hall, Philadelphia. Schedule "A"—Intercepting sewer along Frankford Creek. Schedule "B"—Work apurtenant to the construction of sewage disposal plants, removing buildings, etc., in the Forty-fifth Ward. Owners taking bids, due at noon, February 14th, at room 216 City Hall.

Power House, Coal Pocket and Pipe Tunnel, Erie avenue, yard. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading R.R. Co., Reading Terminal, Philadelphia. Brick and concrete, 1 story, 41x121 feet, coal pocket, concrete, 18x58 feet; pipe tunnel, concrete, 6x86 feet, slag roof, metal lath, rolled steel sash, waterproofing, steel doors, cement and brick floors (mechanical equipment reserved). Owners taking bids, due February 8th at noon. The following are figuring: John V. Speth & Co., 1714 Sansom street; Hogg Conit. Co., 1634 Sansom street; A. L. Carhart, Hale Building; H. E. Baton, Twelfth and Sansom streets; F. W. Van Loon, Denckla Building, and Fred A. Havens & Co., 845 North Nineteenth street; Turner Concrete Steel Co., 1713 Sansom st., and Irwin & Leighton, 126 North Twelfth street.

Bakery (alt.), Twenty-fifth, York and Hagert streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Acme Tea Co., Fourth and Willow streets, Philadelphia. Consists of mezzanine floors, iron work, maple floors. Architects have received bids.

Garage (alt. and add.), 614 South Ninth st., Philadelphia. Architect, Julius J. Anderson, 726 Drexel Building, Philadelphia. Owner, Sol D'Agostine, 616 South Ninth street, Philadelphia. Brick, 2 stories, 20x57 feet, slag roof, cement and pine floors, metal lath. Owner has received bids.

Stores (alt.), 125 and 127 South Thirteenth street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Millards Dress Shop, on premises. New metal front and interior alterations, 2 stories, 32x92 feet, steam heating, electric lighting, hardwood floors, tile and marble work. Architect taking bids, due January 31st at noon. The following are figuring: Lam Building Co., 1001 Wood street; Edw. E. Hollenback, 1604 Brandywine street; Stacy Reeves & Sons, 2011 Market street; Wm. R. Dougherty, 1610 Sansom street; Freund Const. Co., Bulletin Building; Smith-Hardican Co., 1606 Cherry street.

Crane Runway for Shipbuilding Slip, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Structural steel. Lowest bidder, The American Bridge Co., 30 Church street, New York City, \$128 per ton, 320 days.

Store, Residence and Garage, Broad street

and Nedro avenue. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Dr. S. B. Davis, York road, Oak Lane, Philadelphia. Brick, 3 stories, 23x99 feet, slate roof, parquet, pine, cement and terrazzo floors, metal lath (hot water heating, plumbing, electric work, tile and marble work reserved). Revised plans in progress.

Store Building (alt.), 21-23 South Third st., Philadelphia. Architect, Conrad F. Neff, Real Building, Philadelphia. Owner, Mrs. Frost, care architect. Brick, 3 and 1 stories, slag roof, steam heating, gas lighting, pine and cement floors. Architect has received bids.

Factory Building and Shed, Front and Erie avenue, Philadelphia. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Hess-Bright Mfg. Co., on premises. Brick, steel and concrete, 2 stories, 80x225 feet and 1 story, 80x180 feet, slag roof (heating, lighting and plumbing reserved). Plans about completed. Architect will take bids in about three weeks.

Bank (alt.), 610 South Second street, Philadelphia. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owners, Southwark National Bank, W. W. Foulrod, president, on premises. Consists of interior alterations, steam heating, electric lighting, plumbing, pine floors, metal grilles, cabinet work, marble work. Architect has received bids.

Hospital (add.), Fifth and Wilder streets, Philadelphia. Architects, Magainer & Potter, 603 Chestnut street, Philadelphia. Owners, Mt. Sinai Hospital, on premises. Brick, reinforced concrete, terra cotta trimmings, 3 stories, asbestos, 92x82 feet, tile, J. M. asbestos and asphalt roof, composition and cement floors (heating and lighting reserved), metal lath, fire doors, safety treads, tile and marble work, hollow tile, elevators, cabinet work, dumb-waiters. Architects taking revised bids, due February 3d. The following are figuring: H. E. Baton, Twelfth and Sansom streets; Wm. A. Dougherty, 1610 Sansom st.; John R. Wiggins Co., Heed Building; Wm. Linker Co., 831 Cherry street; F. A. Havens & Co., 845 North Nineteenth street; Chas. McCaul Co., 1519 Sansom street; Lam Building Co., 1001 Wood street, and James H. Wells, Heed Building, Philadelphia.

Church Tower and Sunday School, Wingo-hocking and Warnock streets. Architects, Ralph B. Benckert and Price & McLanahan, Assoc., Bellevue Court Building. Owners, First Church of the Disciples of Christ, Berks and Mervine streets, Harold B. Shill, chairman building committee, Wyndmoor, Chestnut Hill, Philadelphia. Stone, 3 stories and basement, 80x35 feet slate roof, steam heating, electric lighting, oak floors, hollow tile. Plans in progress. Architects will take bids in a month.

Store and Apartments, 238 South Fifth st., Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, name withheld. Brick, 4 stories, 20x100 feet, slag roof, hot water heating, electric lighting, pine floors, tile work. Plans in progress.

Mill Building, Sixteenth and Hunting Park avenue, Philadelphia. Architect, not selected. Owners, Bellevue Worsted Mill, care Benjamin W. Greer, Wistar street and P. R. R.R. Brick (slow burning), 3 stories, 60x300 feet, slag roof, steam heating, electric lighting, cement

floors, elevators, ventilators. Work contemplated.

Storage Warehouse (alt.), 3712-14 Market street, \$1,000. Architect, private plans. Owners, Paul M. Evans Co., 1434 Brandywine st., Philadelphia. Consists of interior alterations to first floor, carpentry work, electric lighting, office partitions, etc. Owners will let work.

Stores and Apartments, east side of Frankford avenue, north of Margaret street. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, Wm. Friehofer, Awentietz and Indiana ave., Philadelphia. Brick and terra cotta, 3 stories, 70x80 feet, slag roof, steam heating, electric work, steam heating, tile work (fixtures reserved). Architects taking bids, due February 6th. The following are figuring: Ketcham & McQuade, 1029 Brown street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Rush Bros., 1100 Fillmore street; H. A. L. Smink, Akron and Wakeling streets; Rimer & Byers, 4842 Hawthorne street, Philadelphia.

Bank (alt.), 610 South Second street, Philadelphia. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owners, Southwark National Bank, W. M. Foulrod, president, on premises. Consists of interior alterations, steam heating, electric lighting, plumbing, pine floors, metal grilles, cabinet work, marble work. Architect has received bids.

Sotre Building (alt.), 21-23 South Third st., Philadelphia. Architect, Conrad F. Neff, Heed Building, Philadelphia. Owner, Mrs. Frost, care architect. Brick, 3 and 1 stories, slag roof, steam heating, gas lighting, pine and cement floors. Architect has received bids.

Residences and Garages (3), Walnut lane and Morton street, Germantown. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owner, Walter S. Ballinger, Seventeenth and Arch streets. Brick, stucco and terra cotta, 3 stories, slate roof, electric lighting, hardwood floors, tile work. Architects taking bids, due February 5th. Harry Brocklehurst, 512 W. Norris street; Samuel Harting, 20 E. Johnson street; Wm. J. Grubler & Co., 219 E. High street, and Henry P. Schneider, 3713 Old York road; H. H. Bunnell, 206 Quince street, are figuring.

Church and Sunday School, Fiftieth and Locust streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, First Reformed Church, care Rev. E. R. Appenzeller, 433 South Fifty-first street, Philadelphia. Stone, 2 stories, 75x130 feet, slate roof (steam heat and electric lighting reserved), pine floors, metal lath, waterproofing and dampproofing, cabinet work, tile work. Architects taking bids, due February 10th at noon. F. B. Davis, 240 North Fifteenth st.; Stacy Reeves & Sons, 2011 Market street; E. E. Hollenback, 1804 Brandywine street; F. L. Hoover & Son, 1023 Cherry street; Thos. C. Trafford, 1613 Sansom street; Metzger & Fisher, Denckla Building, and E. J. Kreitzburg, 1345 Arch street; Bailey-Lush Co., 201 North Broad street, and James Johnston, 1721 Ludlow street, are figuring.

Residence (alt. and add.), 1709 Rittenhouse street. Architects, C. Wharton Churchman and E. J. Holmes & Co., assoc., 1525 Locust street, Philadelphia. Owner, name withheld. Brick, 4 and 3 stories, 3 stories addition, 16x

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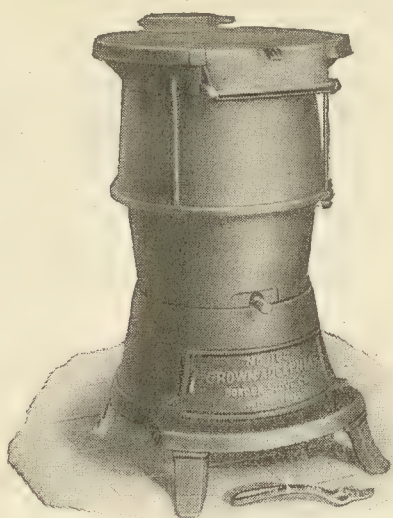
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30 feet, tin and slag roof, metal lath, oak floors, tile and marble work (electric lighting and hot air heating reserved). Architects taking bids, due February 5th. The following are figuring: Frank G. Stewart, 1619 Sansom street; Metzger & Fisher, Denckla Building; Smith-Hardican Co., 1606 Cherry street; and E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Store (alt. and add.), 1212 North Fifty-second street, Philadelphia. Architect, Jas. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, Jacobs Bros., on premises. Brick, 3 stories addition, 20x16 feet, slag roof, pine floors (heating and lighting reserved by owners). Owners taking bids, due February 1st. Alan G. Smith, 2135 North Sixty-third, is figuring.

Residence (alt. and add.) and Garage, 363 E. Gowen avenue, Mt. Airy. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, name withheld. Stone, brick and plaster, 2½ stories, slate roof, garage, 1 story, hollow tile and plaster, 22x22 feet, hardwood and cement floors, tile work (hardwood floors, electric work and heating reserved). Architects taking bids, due February 2d. H. H. Burrell, 206 South Quince street; H. E. Batton, Twelfth and Sansom streets; Fred Elvidge & Son, 5522 Germantown avenue, W. John Stevens, Wynecote, Pa.; F. B. Davis, 240 North Sixteenth street, and E. L. Cuthertson, 334 Roxborough avenue, are figuring.

Residences (54), Tioga street, between I and J streets. Architect, Herman H. Kline, 536 Mifflin street, Philadelphia. Owners, Finestone & Mittelman, 2983 Aramingo street. Brick, 2 stories, 15x45 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners taking sub-bids. Will start building 24 in a few days, and balance later in the spring.

Office and Freight House (add.), Thirtieth and Market streets, Philadelphia. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad St. Station, Philadelphia. Brick and frame, 2 stories addition, 40x64 feet, and freight shed, 1 story, 145x45 feet, steel, corrugated iron, slag roof, steam heat, electric lighting, plank and composition floors, rolling steel doors. Revised plans in progress.

Residences (24), Harrison and Horrocks sts., Philadelphia. Architect, private plans. Owner, Edwin C. Dreby, Haddonfield, N. J. Brick, 3 stories, 16x42 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile

work. Owner will start work in a few days and sub-let.

Office Building, Frankford yards, Philadelphia. Architects, M. of W. Dept., Broad St. Station, Philadelphia. Owners, Penna. Railroad Co., Broad St. Station, Philadelphia. Brick, 2 stories, 15x55 feet, slag roof, steam heat, electric light, composition, cement and pine floors, tile and marble work. Revised plans in progress.

Garage, 6229 Girard avenue, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, name withheld. Brick, 1 story, 66x147 feet, slag roof, skylights, steam heating, electric lighting, cement floor, gasoline storage system. Plans in progress. Will be ready for bids in about ten days.

Store (alt.), 2110 South Broad street, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Francis X. Mansion, on premises. Consists of new partitions, yellow pine floors, new bulk, electric lighting, hot water heating, tile and marble work. Owner ready for bids.

Residences (34), Fairhill street and Fisher's avenue. Architect, private plans. Owner, John M. Snyder, 5213 North Fairhill street. Brick, 2 stories, 16x32 feet and 15x40 feet, slag roof, hot water heating, electric lighting, pine floors. Owner taking sub-bids.

Store and Apartments, 238 South Fifth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Northeast Boulevard Const. Co., 508-9 Commonwealth Building. Brick, 4 stories, 20x100 feet, slag roof, hot water heating, electric lighting, pine floors, tile work. Plans about completed. Owners will take sub-bids.

Cast House (add.), Tioga, Philadelphia. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Steel and corrugated iron, 1 story, 60-foot extension, rolled steel sash. Owners taking bids. Barclay White & Co., 1713 Sansom street, and Irwin & Leighton, 126 North Twelfth street, are figuring.

Artillery Case Shop and Instrument Department Buildings (add.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, Geo. Montgomery, commanding officer, Frankford Arsenal, Philadelphia. Brick, concrete, steel, stone trim, 1 and 2 stories, 199x49 feet, and 4 stories, 63x29 feet, maple floors, hollow tile, elevator, rolled steel sash, waterproofing, safety treads, metal window guards (heating and lighting reserv-

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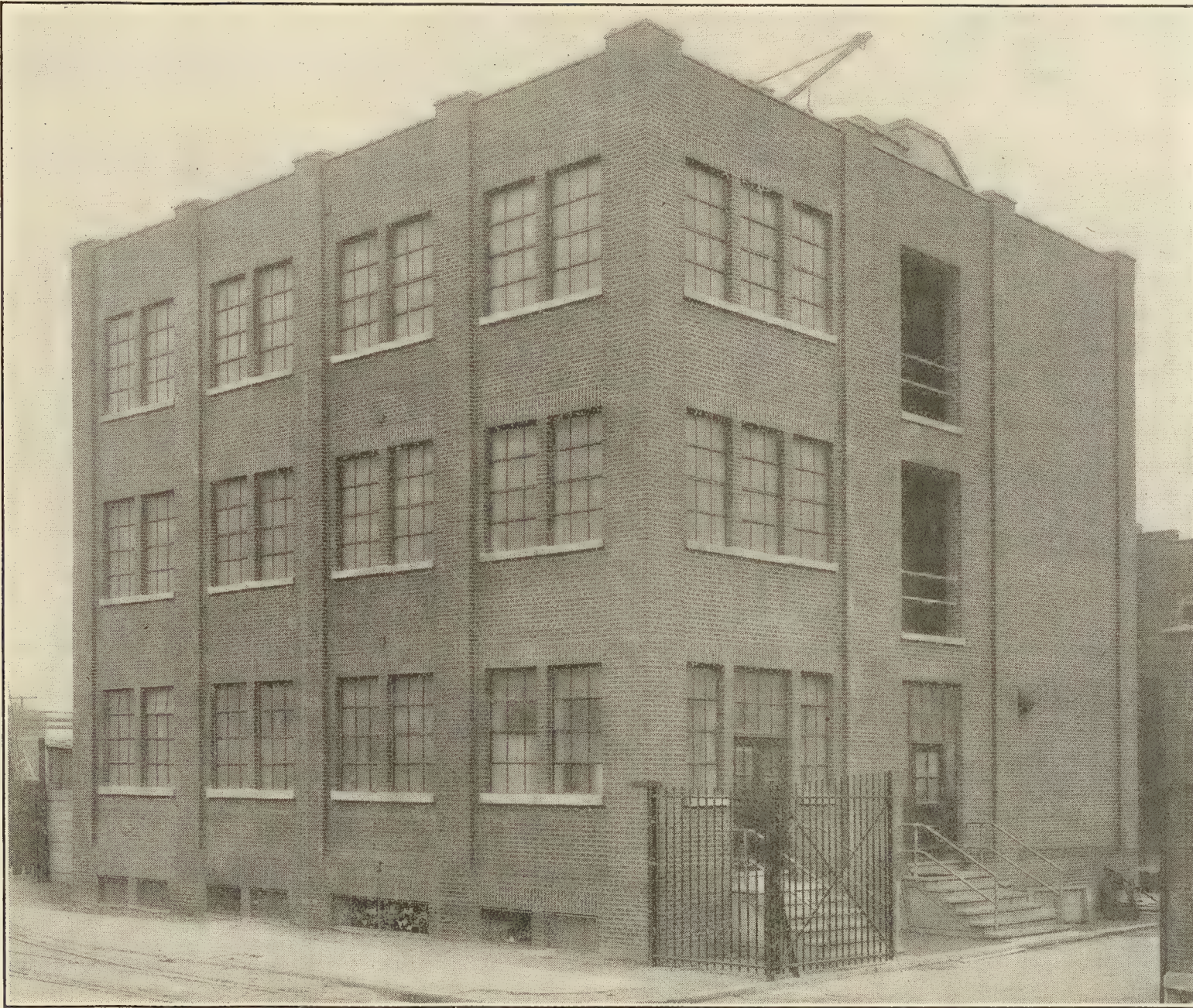
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ed). Owners taking bids, due February 20th. The following are figuring: F. W. Van Loon, Denekla Building; Wills-Ludwick Co., 34 S. Seventeenth street; Monaghan & Losse, Inc., 2016 Chestnut street; H. H. Wehmeyer, 1004 Lehigh avenue.

Residences (8), Twenty-first and Church

lane, Philadelphia, \$2,400 each. Architects, Golden & Greenstein, Cambridge Building, Chester, Pa. Owners, Golden & Greenstein, Cambridge Building, Chester, Pa. Brick, 2 stories, 15x45 feet, slag and shingle roof, hot water heating, electric lighting, parquetry floors. Owners taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, southwest corner Philip and Wharton streets, Philadelphia, \$7,500. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, M. Platt & Co., 1526 E. Moyamensing avenue, Philadelphia. Brick, slow burning, 2 stories, 40x90 feet, slag roof, electric lighting, hand elevator, concrete and wood floors, dry-kiln room, smoke stack, brick 50 feet high (steam heating and electric work reserved by owners). Contract awarded to Jacob Bender, 1810 South Fourth street, Philadelphia.

Community Garage, Wagner avenue, east of Thirteenth street, Philadelphia. Architect, Frank K. Stahl, 2713 Park avenue, Philadelphia. Owner, Geo. E. Noll, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 125x92 feet, slag roof, steam heating, cement floors, electric lighting. Contract awarded to Frank E. Stahl, 2713 Park avenue, Philadelphia.

Stores (2) and Apartment, Risign Sun lane and Boulevard, \$8,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Frank P. Felton, Jr., southeast corner Thirteenth and Chestnut streets. Brick and plaster, 2 stories, 38x48 feet, slag and tile roof, pine floors, tile and marble work (plumbing, heating and lighting reserved). Contract awarded to Geo. Kessler Cont. Co., Drexel Building.

Residence (alt.), 1910 Rittenhouse street, Philadelphia, \$7,500. Architect, private plans. Owner, Chas. L. Wesley, 1420 Chestnut street, Philadelphia. Brick and stone, 4 stories, consists of interior alterations, plumbing, electric lighting, hardwood floors, carpenter work, decorating. Contract awarded to Willard H. Walls, 2235 North Thirty-second street.

Surgical Pavilion (completion), Thirty-fourth and Spruce streets. Architects, Architects, Broekie & Hastings, 1713 Sansom street, Philadelphia. Owners, Trustees of U. of P., on premises. Brick, stone, hollow tile, concrete, first floor and basement, 90x115 feet, felt and asphalt roof, cement, terrazzo and oak marble work (heating, ventilating and electric work reserved by owners). Contract

awarded to Pomeroy Const. Co., 1609 Rantstead street, Philadelphia.

Morgue and Autopsy Building (alt. and add.), northeast corner Front and Huntingdon streets, Philadelphia, \$8,200. Architect, J. Raymond Atkinson, 1618 North Twenty-seventh street, Philadelphia. Owners, Episcopal Hospital, on premises. Brick, 1 story and basement, slate and tin roof, cement and tile floors, metal lath, waterproofing, hollow tile work, (1) elevator. Contract awarded to Thos. Little & Son, 1713 Moravian street.

Chapel (add.), Greenwood Cemetery, Frankford, \$1,000. Architect, private plans. Owners, Greenwood Cemetery Co., Asylum Park and Arrott streets, Frankford. New porch enclosure. Contract awarded to the Franklin Eng. & Const. Co., Bulletin Building, Philadelphia.

Pathological Laboratory Buidlgn, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dept. of Public Health & Charities, Dr. Wilmer Krusen, director, room 534 City Hall. Brick, steel and hollow tile, stone and terra cotta trimmings, 3 stories, 121x32 feet, slag roof, metal lath, rolled steel sash, waterproofing and dampproofing, rolled steel skylights, wire work, tile and marble work, cement floors, metal lockers, metal weatherstrips, terrazzo work (elevator (1), electric work, plumbing, heating, ventilating and refrigerating reserved). Lowest bidders, Nickson Duggan Const. Corp., 1213 Chestnut street, \$198,743; Chas. McCaul Co., 1713 Sansom st., \$207,785.

Storage House (add.), Thirty-eighth and Powelton avenue, Philadelphia. \$12,000. Architects, Sheen & Gill, Heed Building, Philadelphia. Owners, Powelton Storage House, on premises. Brick, slow burning, 5 stories, 36x70 feet, slag roof, pine floors. Contract awarded to Stacy Reeves & Sons, 2011 Market st., Philadelphia.

Apartment House (alt. and add.), northeast corner Sixteenth and Pine streets, \$8,500. Architect, Mantle Fielding, 520 Walnut st.,

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Philadelphia. Owner, Henry Chapman, 1343 Pine street, Philadelphia. Brick, stone trimmings, 3 stories, 19x12 feet and 17x12 feet, tin roof, pine and oak floors, metal lath (heating, electric work, interior decorating reserved). Contract awarded to Burd P. Evans Co., Thirteenth and Wallace streets.

Store Building (alt.), 34 North Fifth street, Philadelphia, \$6,000. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Commercial Photo-Engraving Co., Tenth and Arch streets. Consists of new front and interior alterations, 3 stories, metal lath, fire doors, tile work, pine and cement floors, mill-work, office partitions (steam heating, electric work and gas fitting reserved). Contract awarded to Jacob Greenspun, 551 North Sixth street.

Service Building (alt. and add.), 664-666 N. Broad street, \$24,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Fisk Rubber Co., of New York, 263 North Broad street, Philadelphia. Brick, steel, stone trimmings, 2 stories, 41x126 feet, slag roof, cement, maple and oak floors, metal lath, dampproofing, fire doors, ventilators, tile and marble work, metal skylights, metal bulks, office partitions, rolling steel shutters (plumbing, steam heating, electric work and elevators reserved). Contract awarded to Abel Bottoms & Sons Co., 3611 Walnut street.

Store and Apartment Building, northeast corner Margaret street and Frankford avenue. Architects, Lachman Murphy, Witherpoon Building, Philadelphia. Owner, Wm. H. Freihofer, Twentieth and Indiana avenue. Consists of interior alterations, new partitions, tile work, steam heating, electric lighting, plastering, painting and plumbing. Contract awarded to Rush Bros., 1100 Fillmore street, Philadelphia.

Store and Dwelling (alt. and add.), 5902 Baltimore avenue. Architects, Heacock & Hokanson, 1213 Chestnut street, Philadelphia. Owners, Estate of Bernard MacMackin, dec., Land Title & Trust Co., trustees, Land Title Building, Philadelphia. Brick, 3 stories, tin roof (heating, electric fixtures and show cases reserved). Contract awarded to Ferguson & McDowell, 1003 South Fifty-first street.

Store (alt.), 1018 Chestnut street, \$5,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Marshall & Bush, Inc., 113 South Thirteenth street, Philadelphia. New front and store fixtures, electric lighting, circasian walnut floors, tile and marble work.

Contract awarded to Frank Rieder & Sons, 1507 Germantown avenue, Philadelphia.

Cafe and Dwelling (alt.), northeast corner of Sixty-second and Walnut streets. Architect, H. E. De Hoff, 48 South Sixty-first st., Philadelphia. Owner, Wm. Meenchan, on premises. Brick, 2 stories, tin roof, plumbing, electric lighting, composition and pine floors, metal skylight, tile and marble work. Contract awarded to Gaffney Const. Co., 1927 Poplar street.

Cafe, 9-11-13 North Seventh street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Charles Ricker, 10 North Seventh street, Philadelphia. Brick, 3 stories, 22x50 feet, slate and tin roof, hot water heat, electric lighting, tile work, hardwood floors, 2 dumb waiters, cabinet work. Contract awarded to Nickson-Duggan Const. Corp., 1218 Chestnut street.

Tool House, Twelfth and Glenwood avenue, Philadelphia, \$1,500. Architect, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Hollow tile, 1 story, 16x30 feet, asphalt shingle roof, plank floors. Contract awarded to John V. Speth & Co., 1714 Sansom street.

Factory Building, Seventeenth and Cambria streets, Philadelphia, \$75,000. Architect, Conrad F. Neff, Heed Building, Philadelphia. Owners, Electric Service Supplies Co., on premises. Brick and reinforced concrete, 3 stories, 105x62 feet, slag roof, electric lighting, rolled steel sash, waterproofing, fire doors, safety treads, cement and wood floors, elevator, rolling steel doors. Contract awarded to John N. Gill & Co., Heed Building.

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PENNSYLVANIA

Construction News

Residence (alt. and add.) and Gardener's House, Haverford, Pa. Architect, D. K. Boyd, 139 S. Fifteenth street, Philadelphia. Owner, Mrs. Wm. M. McCauley, Avon road, Haverford, Pa. Interior alterations, terra cotta, 1 story, 20x20 feet. Plans in progress. Ready for bids in about two weeks.

School Buildings, Harrisburg, Pa. Architect, not yet selected. Owners, Board of School Directors, D. E. Hammelbaugh, secretary, Harrisburg, Pa. Brick and stone, 3 stories. Too early for details. Work contemplated. Will select architect in about three weeks.

Residences (3 twin), Wynnefield, Pa. Architects, Neubauer & Boyd, 1118 Chestnut street, Philadelphia. Owner, W. Percival Johnson, 4039 Lancaster avenue, Philadelphia. Stucco, brick and hollow tile, 3 stories, 48x38 feet, tile roof, hot water heating, electric lighting, hardwood floors, tile work. Owner will take sub-bids in about one week.

Residence, 420 N. Leh street, Allentown, Pa., \$25,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, J. L. Hoffman, Thirteenth and Linden streets, Allentown, Pa. Stone and brick, 2½ stories, 42x30 feet. Preliminary plans in progress.

Hotel (interior alt.), Linden street and Elizabeth avenue, Bethlehem, Pa., \$3,500. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. F. Whitman, on premises. Consists of interior alterations, metal ceiling, bar fixtures, plate glass, cabinet work, terrazzo work. Owner taking bids.

Residence, Hamilton Park, Allentown, Pa., \$9,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Mr. Johnson, S. Fourteenth street, Allentown, Pa. Brick, 2½ stories, 25x30 feet. Preliminary plans in progress.

Residence, Bethlehem, Pa., \$5,000. Architect, E. R. Bitting, Wilbur Trust Building, S. Bethlehem, Pa. Owner, Leroy Dietz, Bethlehem, Pa. Brick, 2 stories, 26x32 feet, slate roof, hot air heating, combination lighting, yellow pine floors. Plans completed. Owner ready for bids.

Apartment House (alt. and add.), 625 Union street, Allentown, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Dr. W. W. Eshbach, 520 Union street, Allentown, Pa. Brick, 3 stories, 25x30 feet, slag roof, hot water heating, electric lighting, hardwood and yellow pine floors, tile and marble work. Plans in progress.

Apartment Building and Garage, S. Bethlehem, Pa., \$10,000. Architect, E. R. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Brick, 3 stories, 40x60 feet, slag roof, hot water heating, electric lighting, yellow pine floors. Plans in progress. Owners will take bids in about one week.

Garage, Fifth and Broad street, Bethlehem, Pa., \$12,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Allen Motor Co., Bethlehem, Pa. Brick, 1 story, 60x150 feet, slag roof, steam heating, electric lighting, waterproofing, fir doors, concrete floors, gasoline storage system. Plans in progress. Architect will be ready for bids in about two weeks.

School, Biddle and Church streets, West Chester, Pa. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owners, Board of Education, W. H. Lewis, secretary, West Chester, Pa. Brick, stone, concrete and terra cotta, 3 stories, 147x65 feet and 70x41 feet, asbestos and asphalt roof, cement and pine floors, metal lath, waterproofing, fire doors, ventilators, hollow tile, tile work (steam heating, ventilating, plumbing, electric work separate bids). Owners taking bids, due February 22d. Warren, Moore & Co., Commercial Trust Building, H. E. Grau Co., 1709 Sansom street; Wm. R. Dougherty, 1610 Sansom street; Metzger & Fisher, Denckla Building; Wills, Ludwick Co., 34 South Seventeenth street; H. E. Baton, Twelfth and Sansom streets; Cramp & Co., Denckla Building; Charles McCaul Co., 1713 Sansom street, Philadelphia, and Wm. H. Jones, Joseph M. Burns, Coyd R. Baldwin and Smedley & Hoopes, all of West Chester, Pa., are figuring.

Residence and Garage, Merion, Pa., \$35,000. Architect, Samuel D. Hawley, 2d, Queen Lane Manor, Philadelphia. Owner, name withheld. Brick and plaster, 2½ stories, 30x60 feet, (3) wings, 20x20 feet, slate roof, vapor vacuum heating, electric lighting, hardwood floors, cabinet work, tile work. Plans in progress. Architect will be ready for bids in three weeks.

Residence, Bryn Mawr, Pa., \$100,000. Architects, Brockie & Hastings, 1713 Sansom st., Philadelphia. Owner, Edward C. Dale, 1215 Spruce street, Philadelphia. Stone, 2½ stories, hot air heating, electric lighting. Plans in progress. Too early for details.

Hospital, Nurses Home and Power Plant, Easton, Pa., \$300,000. Architect, Wm. Michler, Drake Building, Easton, Pa. Owners, Board of Trustees of Easton Hospital, Easton,

Pa. Brick, terra cotta, stone and granite, 3 stories and basement, 169x230 feet and 69x104 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and damp-proofing, ventilators, safety treads, tile and marble work, hollow tile, (1) elevator, metal lockers, cabinet work, weatherstrips, dumb-waiters, terrazzo work. Plans about completed. Architect will be ready for bids in about one month.

● **House of Detention,** Sixth and Lehigh sts., Easton, Pa. Architect, J. J. Weitzenfeld, First National Bank Building, Easton, Pa. Owners, County Com. of Northampton, Easton, Pa. Brick, 2½ stories, 29x45 feet, slate roof, vapor heating, electric lighting, metal lath, concrete and wood floors. Plans in progress. Owners will advertise for bids in about two weeks.

Store (alt.), 146 Northampton st., Easton, Pa. Owner, H. Kilbansky, on premises. Consists of new front. Plans in progress.

Store and Apartment Building, South Bethlehem, Pa., \$50,000. Architect, E. R. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Owner, A. Gradwohl, South Bethlehem, Pa. Brick, 3 stories, 50x75 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress.

Residences (6), Hill Top, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. T. Magee, Wilbur Trust Building, South Bethlehem, Pa. Brick, hollow tile and stucco, 2 stories, 26x30 feet, asbestos shingle roof, hot water heating, electric lighting, metal lath, hardwood floors, tile work. Plans in progress. Architect will be ready for bids in a few days.

Residence, Chestnut avenue, Narberth, Pa. Architect, private plans. Owner, Jas. Mac Macken, 320 Merion avenue, Narberth, Pa. Hollow tile and plaster, 2½ stories, shingle roof, steam or vapor vacuum heating, electric lighting, hardwood floors. tile work, Owner taking sub-bids.

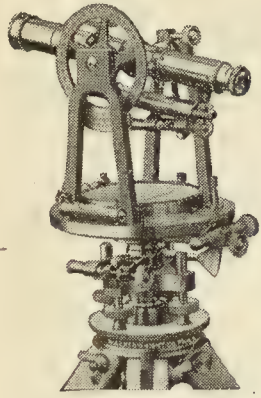
Residence, Merion avenue, Narberth, Pa. Architect, private plans. Owner, Jas. Mac Macken, 320 Merion avenue, Narberth, Pa. Stone and plaster, 2½ stories, shingle roof, steam or vapor vacuum heating, hardwood floors, electric lighting, tile work. Owner taking sub-bids.

Residence and Garage, St. Davids, Pa. Architects, Furness, Evans & Co., Franklin Bank Building, Philadelphia. Owner, Dr. O. H. Pepper, 1811 Spruce street, Philadelphia. Stone, 2 stories, 30x90 feet, slate roof, hardwood floors, tile work (plumbing, heating, electric work reserved). Architects taking bids, due February 3d. Wm. R. Dougherty, 1610 Sansom street; E. J. Hedden, Finance Building; Milton W. Young, Overbrook, Pa.; Geo. L. Croll, Bryn Mawr, Pa.; J. Sims Wilson Co., 1125 Brown street; Jas. B. Flounders, 1320 Arch street; W. O. Springer, 1624 Latimer street, are figuring.

Residences (28), Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. H. Frehofer, Twentieth and ndiana avenue, Philadelphia. Brick, 2 stories, 24x30 feet, tile and slag roofs, hot water heating, electric lighting, hardwood floors. Owner taking bids, due January 31st. Ketcham & McQuade, 1029 Brown street, and Metzger & Fisher, Denckla Building, are figuring.

Passenger Station and Shelter Platform, Merion, Pa., \$17,000. Architect, M. of W. Dept., Broad street station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Brick, 1 story, slate roof, pine floors, electric lighting. Plans in progress.

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Home Buildings (3), Elizabethtown, Pa. Architect, C. Emlen Urban, Lancaster, Pa. Owners, Committee on Homes of the R. W. Grand Lodge, F. and A. Masons in Pennsylvania, Pittsburgh, Pa. Stone and hollow tile, 3 stories, (1) 97x38 feet and (2) 39x73 feet, slate roof, composition and maple floors, metal lath, tile and marble work (weather strips, plumbing, electric work, vacuum cleaner, hot water heating, painting and lighting fixtures reserved). Architect taking revised bids, due February 13th. Pomeroy Const. Co., 1609 Ranstead street, Philadelphia, is figuring.

Store Buildings (2), Fourth and Edmont avenue, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. C. Taylor, Chester, Pa. Brick, 3 stories, 20x60 feet, slag roof, electric lighting (heating reserved). Owner taking sub-bids. Plans may be seen at architect's office.

Store and Apartments (alt.), Sixth and Market streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Senator W. C. Sproul and J. C. Taylor, Chester, Pa. Consists of remodeling hotel into store and apartments, new partitions, new bulks, electric lighting, tile work (heating reserved). Owners ready for sub-bids. Plans may be seen at architect's office.

Apartment Houses (2), Edgmont avenue, west of Third street, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Penn Realty Co., Chester, Pa. Brick, 3 stories, 20x65 feet, slag roof, electric lighting, tile work (heating reserved). Owners ready for sub-bids. Plans may be seen at architect's office.

Workingmen's Hotel, Fourth and Edgmont avenue, Chester, Pa. (alts.). Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, George Shober, 305 Market st., Chester, Pa. Consists of general interior alterations, new partitions, new bulks, electric lighting, marble work (heating reserved). Owner ready for sub-bids. Plans may be seen at architect's office.

Store House, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, War Department, Washington, D. C. Brick, concrete and steel, 1 story, 50x200 feet, asbestos roof, concrete floors, rolled steel sash,

dampproofing, fire doors. Owners, care of U. S. Engr. Office, 815 Witherspoon Building, taking bids, due February 5th at noon. In addition to those previously reported, Driscoll Co., Stock Exchange Building, and James H. Wells, Heed Building, Philadelphia, are figuring.

Shop, Chester, Pa. Architect, private plans. Owners, Sun Shipbuilding Co., Finance Building, Philadelphia. Frame, 2 stories, 200x50 feet, composition roof, pine floors. Owners taking bids, due as soon as possible. John F. Gill & Co., Heed Building; H. E. Baton, 12th and Sansom streets; Barclay White & Co., 1713 Sansom street, and Wm. Provost, Chester, Pa., are figuring.

Garage, Seventh and Market streets, Chester, Pa. Architect, private plans. Owners, Gallagher Bros., Chester, Pa. Brick and concrete, 3 stories, 100x75 feet, slag roof, steam heating, electric lighting, cement and pine floors, elevator, gasoline storage system. Owners taking bids, due at once. Turner Concrete Steel Co., 1713 Sansom street, Philadelphia, are figuring.

Factory, Bristol, Pa. Engineer, Wager Fisher, Commonwealth Building, Philadelphia. Owners, Rohm & Haas, 40 North Front street, Philadelphia. Brick (slow burning), 4 stories, slag roof. Plans in progress.

Church, Buckley, Pa. Architect, A. A. Richter, 31 North Sixth street, Reading, Pa. Owners, congregation of St. Paul's Reformed Church, Bickley, Pa. Stone, 1 story, basement and gallery, 65x115 feet, slate roof, steam vapor heating, electric lighting, maple floors. Plans in progress.

Store Building, Pottsville, Pa., \$20,000. Architect, H. J. Mauer, Baer Building, Reading, Pa. Owners, Miller & Miller, Pottsville, Pa. Brick, terra cotta and steel, 3 stories, 30x92 feet, slag roof, steam heating, electric lighting, metal lath and sash, dampproofing, ventilators, safety treads, tile floors, store fixtures, terrazzo work, metal window guards. Architect taking bids, due February 10th. Wm. Beshore & Sons and I. H. Becker, Schuylkill Haven, Pa., and C. Messersmith, Gordon Nagle, Pottsville, Pa.; Ossman J. Aregood, Geo. H. Wertley, all of Pottsville, Pa.; L. H. Focht & Son, and the Beard Const. Co., Reading, Pa., are figuring.

PENNSYLVANIA

Contracts Awarded

Bungalow (add.), Lindenhurst, Pa., \$7,500. Architects, Mechanical Dept., John Wanamaker, Thirteenth and Chestnut streets. Owner, John Wanamaker, Thirteenth and Chestnut streets, Philadelphia. Frame, 2 stories,

22x26 feet, shingle roof, pine floors, tile work (plumbing, heating and lighting reserved). Contract awarded to F. L. Hoover & Sons, 1023 Cherry street.

School, Newtown, Bucks Co., Pa. Archi-

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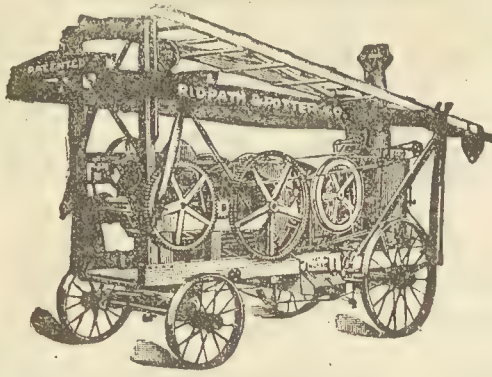
tect, Edwin F. Bertollett, 1614 Cherry street, Philadelphia. Owners, School Board of Newtown, Newtown, Pa. Brick or stone, 2 stories, 76x32 feet, slate roof (heating, lighting reserved), pine and reinforced concrete floors, metal lath and sash, waterproofing, fire doors, ventilators. Contract awarded to Harry E. Girtan, Newtown, Pa.

Hospital (alt. and add.), Bryn Mawr, Pa. Architects, Furness, Evans & Co., Franklin Bank Building, Philadelphia. Owners, Bryn Mawr Hospital, on premises. Stone and hollow tile, 3 stories addition, 30x60 feet, slag and copper roof (heating reserved), electric lighting, metal lath, pine, cement and terrazzo floors. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Residence (alt. and add.), Rosemont, Pa., \$9,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner, Miss Alice M. Patton, on premises. Brick and frame, 2 and 1 story, 28x10 feet and 13x18 feet, shingle roof, tile, asbestos and brick floors, electric lighting. Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Garage (add.), Swarthmore, Pa., \$20,000. Architect, private plans. Owners, Swarthmore Garage, Swarthmore, Pa. Brick and reinforced concrete, stories, 50x70 feet and 13x48 feet and 1 story, 8x60 feet, slag roof, steam heating, electric lighting, rolled steel sash, concrete floors, gasoline storage system. Contract awarded to the Franklin Eng. & Const. Co., Bulletin Building.

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Boiler House, Front and Bern streets, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, Reading Dyeing Co., Front and Bern street, Reading. Brick, 1 story, 48x50 feet, slag roof, electric lighting (boiler, electric work and conveyer reserved). Contract awarded to Isaac L. Graeff, 462 Center avenue, Reading, Pa.

Residence and Stable (alt. and add.), Mill Creek road, Ardmore, Pa. Architects, Broekie & Hastings, 1713 Sansom street, Philadelphia. Owner, Wm. S. Godfrey, Seventeenth and Walnut streets, Philadelphia. Stone and plaster, 2½ stories, shingle roof, warm air and hot water heating, oak, canvas, pine and cement floors, electric lighting, metal lath, tile work, metal window guards, weather strips, cabinet work (decorating and lighting fixtures reserved). Contract awarded to J. P. Thompson, Real Estate Trust Building.

Residence and Garage (alt. and add.), Ardmore, Pa., \$5,000. Architects, Mellor, Meigs

& Howe, 205 South Juniper street, Philadelphia. Owner, Mrs. Richard Rossmassler, Ardmore, Pa. Interior alterations, bath and servants' rooms (3), laundry, cement floors. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Residence, College Hill, Easton, Pa., \$12,000. Architect, Wm. Michler, Drake Building, Easton, Pa. Stone, terra cotta and stucco, 2½ stories, 41x44 feet, slate roof, steam heating, electric lighting, hardwood floors, hollow tile work. Contract awarded to Wm. Snyder, Lafayette and Delaware streets, Easton, Pa.

Store and Residence (alt. and add.), 117-19 North Third street, Easton, Pa. Architect, J. J. Weitzenfeld, First National Bank Building, Easton, Pa. Owner, Calvin J. Smith, Easton Trust Building, Easton, Pa. Brick, 2 stories, 25x60 feet, slag roof, hot water heating, hardwood floors, electric lighting, metal lath, tile and marble work. Contract awarded to Samuel Snyder, South side Center street, Easton, Pa.

NEW JERSEY Construction News

Power Station and Coal Trestle, McAfee, N. J. Architect, private plans. Owners, Bethlehem Steel Co., South Bethlehem, Pa. Brick, steel and reinforced concrete, 1 story and basement, 38x75 feet, composition roof, concrete floors, Gypsum tile, rolled steel sash, waterproofing, ventilators, checkered iron plates, ventilators, rolling steel doors (electric work reserved). Owners taking bids. Pomeroy Const. Co., 1609 Ranstead street, is figuring.

Municipal Pier, Auditorium and Buildings (2), Stone Harbor, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Borough of Stone Harbor, S. E. Herbert, mayor, Stone Harbor. Frame and timber, 2 and 1 stories, 240x90 feet and 51 feet, shingle roof, pine and maple floors, electric lighting, skylights. Architect taking bids due February 2d. The following are figuring: Franklin Eng. Co., Bulletin Building, Philadelphia; Allen G. Scull, Ocean City, N. J.; Wm. L. Turpin & Son, Stone Harbor, N. J.

Albany Apartments, Trenton and Atlantic avenues, Atlantic City, N. J., \$50,000. Architect, Seward G. Dobbins, 10 S. Tenn. avenue, Atlantic City, N. J. Owners, Hempton Bros. Co., 4403 Atlantic avenue, Atlantic City. Brick and concrete, 3 stories, 50x105 feet, slate roof, hot water or vapor heating, electric lighting, metal lath, tile and marble work, yellow pine floors. Plans in progress. Owners will be ready for sub-bids in about one week.

Apartment House, Pacific avenue near Hartford, Atlantic City, N. J., \$20,000. Architect, Seward G. Dobbins, 10 S. Tenn. avenue, At-

lantic City. Owner, M. Vetter, Alexander Apartments, Atlantic City, N. J. Brick, 3 stories, 40x85 feet, slate roof, vapor heating, electric lighting, metal lath, yellow pine floors. plans in progress. Architect will take bids in two weeks.

Apartment House, N. Penna. avenue, Atlantic City, N. J. Architect, J. R. Ogden, S. South Carolina avenue, Atlantic City. Owner, name withheld. Brick and reinforced concrete, 3 stories, 35x65 feet, slag roof, hot water heating, electric lighting, yellow pine floors, tile and marble work. Plans in progress. Architect will take bids in about three weeks.

Apartment House, St. James Place, Atlantic City, N. J. Architect, J. R. Ogden, S. South Carolina avenue, Atlantic City, N. J. Owner, name withheld. Brick, 3 stories, 22x70 feet, slag roof, hot water heating, electric lighting, metal lath, leaded glass, tile and marble work, yellow pine floors. Plans in progress. J. M. Taylor & Son, Atlantic City, N. J., will be ready for sub-bids in about one week.

Residence (alt. and add.), New Jersey avenue, Atlantic City, \$5,000. Architect, Wm. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, E. R. Sander, on premises. Brick, 3 stories, steam or hot water heating, combination lighting, tile work, new store front, sheet metal work. Owner is taking bids.

Apartment House, S. New York avenue, Atlantic City, \$12,000. Architects, Smith and Henderer, Sheen Building, Atlantic City. Owner, F. Myer, 2400 Aretic avenue, Atlantic City, N. J. Brick, 3 stories, slag roof, hot water heating, electric lighting, metal lath,

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1215 FILBERT ST., PHILADELPHIA

tile and marble work, yellow pine floors. Plans in progress. Architect will take bids about the 15th of February.

Apartment Hotel, Boardwalk and Brighton avenue, Atlantic City, N. J., \$500,000. Architects, Clinton & Russell, 32 Nassau street, New York City. Owner, John Stafford, 1112 Chestnut street, Philadelphia. Brick, steel, stone and terra cotta, 11 stories, 115x150 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, oak floors, elevators. Plans in progress. Owners will take sub-bids in one month.

Church, Philipsburg, N. J., \$20,000. Architect, J. W. Reiley, Buckley Building, Allentown, Pa. Owners, St. Peter and Paul Greek Catholic Church, Rev. Michael Wilchak, Center street, Philipsburg, N. J. Brick, 1 story and basement, 42x93 feet, asbestos shingle roof, maple floors (steam heating, electric work and plumbing reserved). Plans in progress.

Laboratory, Taylor and Quarry alleys, Trenton, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Department of Conservation and Dev., Trenton, N. J. Brick, terra cotta and stone trim, 3 stories, 40x52 feet, asphalt slag and asphalt slate roof, cement and maple floors, waterproofing, fire doors, dumb waiter, metal skylights (heating, lighting and plumbing separate bids). Owners taking bids, due February 2nd. Hughes-Foulkrod Co., Commonwealth Building, and James H. Wells, Heed Building, Philadelphia, are figuring.

Library Building, Haddonfield, N. J., \$25,000. Architect, Wm. C. Prichett, 416 Walnut street, Philadelphia. Owners, Haddonfield Library, Wm. G. Moore, chairman Building Committee, Drexel Building, Philadelphia. Brick and hollow tile, marble or terra cotta trim, 1 story and basement, 60x54 feet, slag roof, steam heating, electric lighting, pine and cement floors, tile and marble work. Plans in progress.

High School, Bridgeton, N. J., \$125,000. Architect, E. Z. School, 31 North Sixth street, Reading, Pa. Owners, School Board, care of Frank McCowan, secretary, Bridgeton, N. J. Stone or brick, reinforced concrete, 2 stories and basement, 215x80 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing and dampproofing, fire doors, ventilators, safety treads, tile and marble work, metal lockers, cabinet work. Owners taking bids, due February 19th.

Stores and Print Shop, Hopewell, N. J., \$18,000. Architect, J. Osborne Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, E. V. Savidge, Hopewell, N. J. Brick and terra cotta, 3 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, tile and marble work. Architect will be ready for bids in about ten days.

New Jersey Contracts Awarded

Residence and Garage, Elberon and Atlantic avenues, Atlantic City. Architects, Stout

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1927 W. Montgomery Avenue, Philadelphia, Pa.

& Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owner, John Conlin, S. Iowa avenue, Atlantic City, N. J. Brick and stucco, 2½ stories, 53x25 feet, slate roof, hot water heating, electric lighting, metal lath, oak floors, tile and marble work (heating and plastering reserved). Contract awarded to Thompson Bros., 4 S. Ohio avenue, Atlantic City, N. J.

Store and Apartments, Atlantic near Virginia avenue, Atlantic City, N. J., \$7,000. Architect, Seward G. Dobbins, 10 S. Tenn. avenue, Atlantic City. Owner, Asa D. Grabau, 1316 Atlantic avenue, Atlantic City. Brick and steel, 2 stories, 20x110 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work, store fixtures. Contract awarded to S. Delinsky, Atlantic City, N. J.

Apartment House, S. Penna. avenue, Atlantic City, N. J. Architect, J. Vaughn Mathias, Guarantee Trust Building, Atlantic City. Owners, Revere Apartments Co., Atlantic City, N. J. Brick, steel, hollow tile and stone trimmings, 5 stories, 92x132 feet, slag roof

(hot water heating reserved), electric lighting, waterproofing, re doors, tile and marble work, oak and pine and cement floors, (1) elevator, (1) dumbwaiter. Contract awarded to J. Maths & Son, Guarantee Trust Building, Atlantic City, N. J.

Bridge, Public road, north of Tukerton station on Main Line. Architect, Samuel T. Wagner, Phila. & Reading RR., Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Steel, concrete and asphalt, 61 feet long. Contract awarded to the American Bridge Co., 30 Church street, New York City.

Milk and Ice Cream Plant (add.), Atlantic City, N. J. Architect, Chas. H. Caspar, 925 Chestnut street, Philadelphia. Owners, Supplee Alderney Dairy, 1118 Jefferson street, Philadelphia. Brick and steel, 2 and 3 stories, 165x59 feet, slag roof, maple, concrete and asphalt floors, rolled steel sash, waterproofing, fire doors and kalamein doors, ventilators (heating and electric work reserved). Contract awarded to Wilber Beaumont, Atlantic City, N. J.

MARYLAND

Construction News

Residence, Green Spring Valley, Md. Architect, J. Franklin Nelker, 330 North Charles street, Baltimore, Md. Owner's name withheld. Stone, 2½ stories, 31x48 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Residence, Mt. Dillon, Md. Architect, W. B. Gerwig, 1028 North Fulton avenue, Baltimore, Md. Owner, J. Fred Knoop, 1536 West Baltimore street, Baltimore, Md. Frame, 2½ stories, 25x30 feet, slate roof, steam heating, electric lighting. Plans about completed. Will take bids in about one month.

Factory, Calverton road and Lexington st., Baltimore, Md. Architect, James R. Edmunds, Jr., 908 Munsey Building, Baltimore, Md. Owners, International Wood and Paper Co., on premises. Brick (slow burning), 3 stories, 40x136x146 feet, slag roof, reinforced concrete, steam heating, electric lighting, elevators (electric), fire escapes, galvanized iron work, skylights, ventilators, fireproof doors. Plans in progress.

Warehouse, Russell and Ostend streets, Baltimore, Md. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore, Md. Owner, Samuel Cooper, 2036 Brookfield avenue, Baltimore, Md. Brick, 2 stories, 80x155 feet, slag roof, steam heating, electric lighting. Plans

about completed. Will take bids in a few days.

Apartment House, Fortieth street and Stoney Run Lane, Baltimore, Md., \$100,000. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owners, the Tuscany Apartment Co., Baltimore, Md. Steel, concrete and brick, stone or terra cotta trim, 4 stories, 40x180 feet, tile and slag roof (heating not decided), combination lighting, fire escapes, skylights, ventilators, fireproofing, dampproofing, hollow tile, plastering, tile work, marble and terrazzo work, hardwood floors, dumb waiters. Architects taking sub-bids on all lines.

Bungalow, Mt. Washington, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owner, Daniel H. Flynn, care of W. W. Lanahan & Co., Baltimore, Md. Frame, 1½ stories, shingle or slate roof, hot water heating, electric lighting, tile work, hardwood floors. Architect taking bids, due February 5th. The following are figuring: Cowan Building Co., 106 West Madison street; A. Knell, Jr., Law Building; Charles A. Brown, 15 East Fayette street; E. G. Turner, 15 East Fayette street; G. Walter Tovell, 401 McCulloh street, and C. W. Littleton & Son, 4313 Liberty Heights avenue, Baltimore, Md.

Convent, Battery avenue and Gittings st., Baltimore, Md. Architects, Murphy & Olm-

stead, 1413 H. street, Washington, D. C. Owners, St. Mary Star of the Sea, care of Rev. John T. Whelan, 1400 Riverside avenue, Baltimore, Md. Brick, terra cotta trim, 3 stories, 37x72 feet, slag roof, hot water heating, electric lighting, concrete work, dampproofing, tile work, marble work, slate, vacuum cleaning system. Architects taking bids, due February 1st 3 P. M. The following are figuring: Consolidated Eng. Co., Calver Building; H. D. Watts Co., Garrett Building; James J. O'Connor, 427 East Lexington street; Monmonier & Sorrell, 1711 McCulloh street; Edw. Brady & Son, 1109 Cathedral street, Baltimore; Charles J. Cassidy Co., Southern Building, Washington, D. C., and J. H. Smith, 1426 Light street, Baltimore, Md.

Residence, Green Spring Valley, Md. Architect, Theo. Wells Pietsch, American Building, Baltimore, Md. Owner, A. Stanley Zell, 11 East Mt. Royal avenue, Baltimore, Md. Stone, stucco and brick, 2½ stories, 35x90 feet, slate roof, steam or hot water heating, electric lighting, tile work, hardwood floors, vacuum cleaning system, cabinet work. Architect taking bids. West Const. Co., American Building; Gladfelter & Chambers, Thirty-sixth and Roland avenue; Sylvester Marshall, Owings Mills, Md.; John Waters Building Co., 23 East Center street; Cowan Building Co., 106 West Madison street; Ignatius Smith, 2207 Roslyn avenue, Baltimore, Md., are figuring.

Maryland

Contracts Awarded

Bank Building, 1808 Pennsylvania avenue, Baltimore, Md. Architect, A. Cookman Leach, 323 North Charles street, Baltimore, Md. Owners, Calvert Bank, Wm. H. Dashiell, cashier, Howard and Saratoga streets, Baltimore. Brick, 1 story, 24x50 feet, marble and terra cotta trim, slag roof, hot air heating, electric lighting, concrete work, tile work, marble work, cabinet work, plastering, plumbing, painting. Contract awarded to Charles Herbold & Son, 2768 West North avenue, Baltimore, Md.

Residences (12), Presstman near Monroe, Baltimore, Md., \$14,400. Architect, private plans. Owner, J. P. Brandau & Bro., 700 East North avenue, Baltimore, Md. Brick, 2 stories, 16x75 feet, electric lighting. Owners taking sub-bids.

Residence, Elmwood avenue and Falls road, Baltimore, Md., \$6,000. Architect, A. Towne, care of Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, Mrs. Hattie W. Towne, care of architect. Frame, 2½ stories, slate roof, hot water heating, electric lighting. Contract awarded to Winkler & Otto, Belair road, Baltimore, Md.

Garage, Roland Park, Baltimore, Md. Architect, Edw. L. Palmer, Munsey Building, Baltimore, Md. Owner, Arthur Thompson, Frederick and Water streets, Baltimore, Md. Stone, 1 story, 23x25 feet, shingle roof, electric lighting, plumbing, concrete floors. Contract awarded to E. G. Turner, 15 East Fayette street, Baltimore, Md.

Garage and Stable, northeast corner of Regester and Keyser streets, Baltimore, Md., \$3,500. Architect, private plans. Owner, Geo. T. Butterhoff, Gay and Walfe streets, Baltimore, Md. Brick, 1 story, 40x65 feet, Carey roof, electric lighting. Owner is sub-letting.

School Building, Fayette street, between Payson and Plaski streets, Baltimore. Architect, Hugh I. Kavanagh, 226 East Eager street, Baltimore, Md. Owners, Sisters Bon-

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Secour, on premises. Brick, 4 stories, 40x90 feet, marble trim, slag roof, steam heating, electric lighting, electric elevator, concrete

work, plastering, painting, plumbing. Contract awarded to T. D. Keating, 2213 West Baltimore street, Baltimore, Md.

Miscellaneous Construction News

Residence and Garage, Dover, Del., \$40,000. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owner, Josiah O. Wolcott, Dupont Building, Wilmington, Del. Brick, 2½ stories, 117x35 feet, shingle roof, vapor heating, electric lighting, hardwood floors, tile work. Architects taking bids, due February 15th. The following are figuring: Lon. W. Clifton, Geo. E. Coffin, Dover Lumber & Milling Co., all of Dover, Del.; Geo. H. Thomas, Woodside, Del.; and Albert

Elliott and Wm. L. Torbett, both of Laurel, Del.

Church, Woodlawn and Lancaster avenues, Wilmington, Del., \$15,000. Architect, Edw. Canby May, Dupont Building, Wilmington, Del. Owners, Silverbrook Trustees, on premises. Stone, brick and stucco, 2 stories, 100x42 feet, tin roof, steam heating, electric lighting, metal lath, yellow pine floors. Plans in progress.

Armstrong & Latta (C), Land Title Building. Temporary repairs.

Store and dwelling, 404 Poplar street, \$500. J. Lichow (O), 864 North Fifth street. Max Kane (C), 871 North Sixth street, Philadelphia. New flush bulks, repairs.

Mill, York and Jasper streets, \$500. Thos. Buck Hosiery Co. (O), on premises. Wm. Steele & Sons Co., 1600 Arch street. Tank.

Tenement house, 3215 Diamond street, \$800. M. M. Magel (O), on premises. Jake Greenspun (C), 551 North Sixth street. Interior alterations.

Store, 210-12 Market street, \$5,500. George H. Earle, Jr. (O), Real Estate Trust Building. Lam Building Co. (C), 1001 Wood street. Repairs.

Store and dwelling, 1904 South Seventh st., \$1,100. Jos. Polen (C), 420 Ritner street. Louis Cohen (C), 312 Kimball street. Slay roof, 2 stories addition, 13x14 feet.

Storage, Twenty-fifth and Locust streets, \$3,000. Baltimore and Ohio RR. Co. (O and C), Twenty-fourth and Chestnut streets. Alterations and repairs.

Shed, Twenty-fifth and Locust streets, \$2,000. Baltimore and Ohio RR. Co. (O and C), Twenty-fourth and Chestnut streets. Shed, 1 story, 15x192 feet.

Office, Broad and Chestnut streets, \$5,000. John Wanamaker (O), Thirteenth and Chestnut streets. Osborn & Co. (C), Finance Building. Alterations.

Dwelling, 151 W. Coulter street, \$400. Thos. R. White (O), 151 Coulter street. I. A. Dunkelberger (C), 71 Herman street. New fire place.

Residence, Sixty-sixth and Wynnefield sts., \$335. Sutton Wynnefield (O). Adam Berle (C), 1800 North Twelfth street. Hot air heating.

Store, 133 South Thirteenth street, \$1,000. L. Lansals (O), on premises. Kalman Jaffe (C), 960 North Seventh street. Brick, 1 story, side addition, 3x30 feet, flush bulks.

Store and dwelling, 1630 North Twelfth street, \$325. A. Bugglin (O), 1630 North Twelfth street. Frank I. Wentz (C), 1618 North Twenty-seventh street. New flush bulks.

Carpenter shop, Erdsick and Van Kirk sts., \$300. Emil Diener (O and C), 3111 Vankirk street. Frame, 1 story, 16x20 feet, rubberoid roof.

Garage (addition), American and Cambria streets, \$4,500. Shafleigh Co. (O), on premises. H. Brocklehurst (C), 512 Norris street. Slag roof, 2 stories addition, 38x22 feet.

Permits for New Buildings

O is the abbreviation for owner. **C** is for contractor.

Philadelphia

Factory, 1311-13-15-17-19 Buttonwood st., \$40,000. Tinius Olsen (O), 500 N. Twelfth street. Lam Building Co. (C), 1001 Wood st. Brick, 4 stories, 41x80 feet, slag roof.

Dwelling, Eleventh and Champlost avenue, \$3,000. Llewellyn Davis (O and C), Thirteenth and Medary streets. Frame, 2 stories, 24x30 feet, shingle roof, hot air heating.

Stores and apartment, Boulevard and Rising Sun lane, \$7,800. Frank P. Felton, Jr. (O), southeast corner Thirteenth and Chestnut streets. George Kessler Contracting Co. (C), Drexel Building. Brick, 2 stories, 20x20 feet, slag roof.

Shop and dwelling, 312-14 North Fifty-seventh street, \$370. J. Maguire (O and C),

5703 Summer street. Brick, 3 stories, 30x45 feet, slag roof.

Fraternity house, 3618-20 Locust street, \$24,250. Phi Sigma Kappa Fraternity (O), 3732 Walnut street. Wills-Ludwick Co. (C), 34 South Seventeenth street. Brick, 4 stories, 51x51 feet, tile roof, steam heating.

Manufacturing building, 3505 North Tenth street, \$350. C. Wagner (O), 3849 N. Eighth street, Philadelphia, \$350. Wm. J. Jackson (C), 3503 North Tenth street. Brick, 1 story, 23x50 feet.

Factory, Philip and Wharton streets, \$7,000. M. Platt and Co. (O), on premises. Jacob Bender (C), 1817 South Fourth street. Brick, 2 stories, 40x40 feet, slag roof.

Alterations and Additions

Offices, Main street south of Walnut lane, \$2,500. J. F. Littlewood (O), 131 Rochelle avenue. Elmer L. Cuthbertson (C), 334 Rox avenue. New slag roof, repairs.

Store, 1626 Chestnut street, \$7,000. Leon Dalsimer (O), Hotel Lorraine. Freund Construction Co. (C), Bulletin Building. Repairs.

Dwelling, 707 W. Moyamensing avenue, \$700. L. E. Herman (O), on premises. Success Contracting Co. (C), 808 W. Moyamensing avenue. Brick, 1 story addition, 12x24 feet, slag roof.

Parish house, 422 South Nineteenth street, \$390. St. Mark's Church (O), 1611 Locust street. J. Kisterback & Son (C), 2002 Market street. New heater, repairs.

Tower, Second and Jackson streets, \$2,000. Morgenthaler Bros. (O), Second and Jackson streets. B. Franklin Hart, Jr. (C), 50 Church street. New York City. Ice storage.

Warehouse, Arch and Water streets, \$600. Alfred Laury & Bros. (O and C), 50 North Delaware avenue. Alterations and repairs.

Shoe store, 216 North Eighth street, \$375. Newark Shoe Store (O), 719 N. Lombard st., Baltimore, Md. Morris Sabel (C), 903 Cherry street. New bulk window.

Apartment house, Forty-seventh and Balti-

more avenue, \$350. J. W. Eltinger (O), Ivan Apartments. N. H. Yaske (C), 5245 Ludlow street. Repairs.

Factory and store, 34 N. Fifth street, \$6,000. Photo Engraving Co. (O), on premises. Jake Greenspun (C), 551 North Sixth street. New fire tower, repairs.

Warehouse, 322-24 North Third street, \$1,500. Penn Leather Co. (O), 261 N. Third street. Geo. Kessler Cont. Co. (C), Drexel Building. Minor alterations.

Lumber shed, 620 Pine street, \$485. J. T. Reilly (O), 620 Pine street. Robt. Kirkpatrick (C), 2119 Fitwater street. Repair brick walls.

Store and dwelling, 1424 South Twelfth st., \$1,400. G. Di Ippalito (O), on premises. Nicola Bastelama (C), 1241 Christian street. Brick, 2 stories rear addition, 7x17 feet, slag roof, flush bulk.

Garage alteration, 3805 Irving street, \$2,000. Godfrey Rebman (O), Twelfth and Sansom streets. A. R. Ra ff Const. Co. (C), 1635 Thompson street. Alterations to hot water heating.

Church, Sansom street, between Thirtieth and Fortieth streets, \$300. Walnut St. Presbyterian Church (O), 3925 Walnut street.

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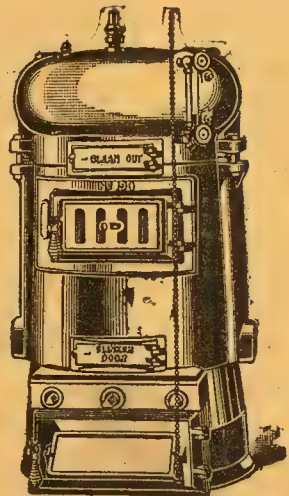
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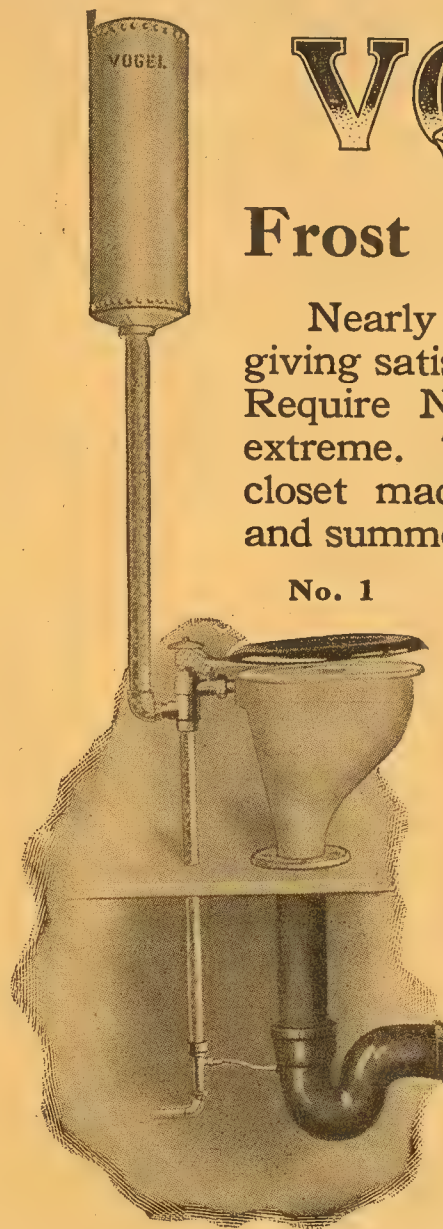
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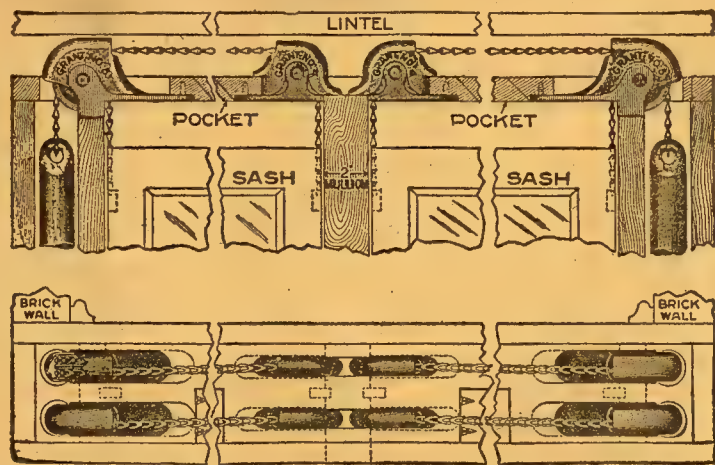
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Vol. XXXII, No. 6.

PHILADELPHIA, WEDNESDAY, FEBRUARY 7, 1917.

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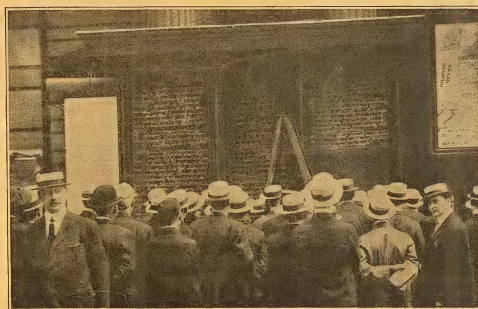
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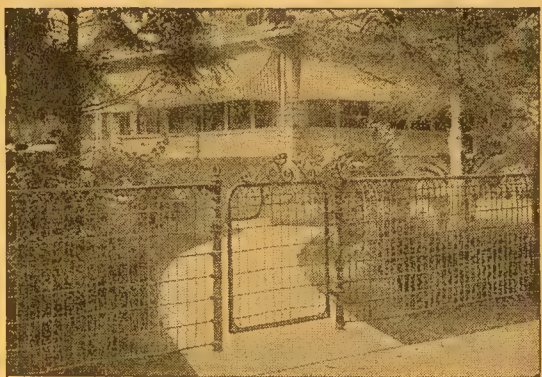
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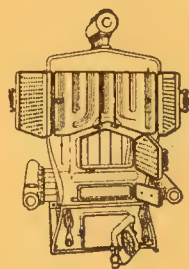
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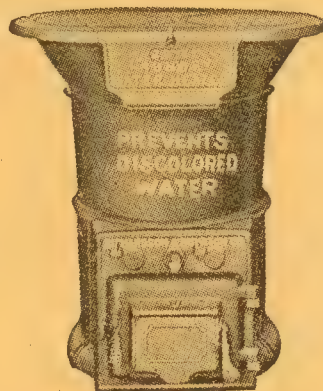
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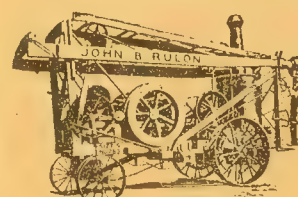
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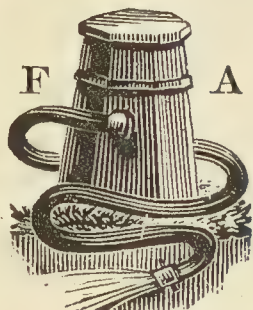
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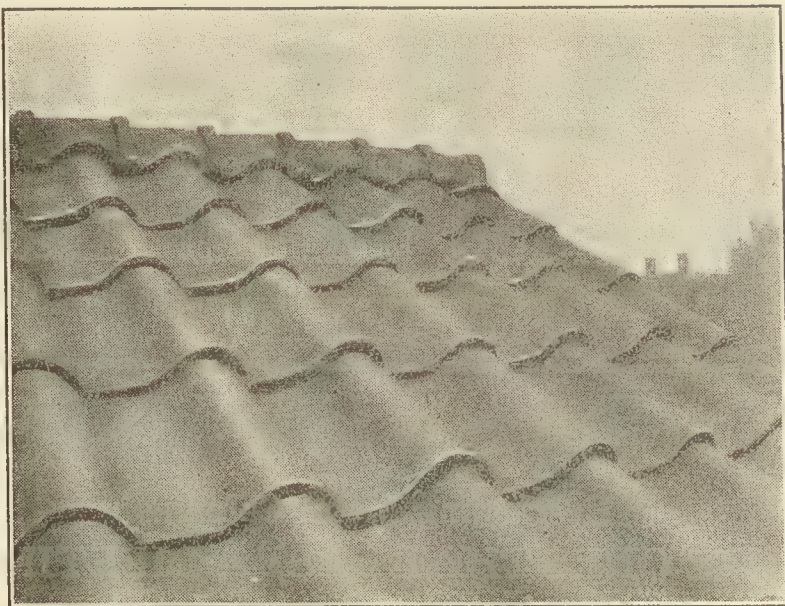


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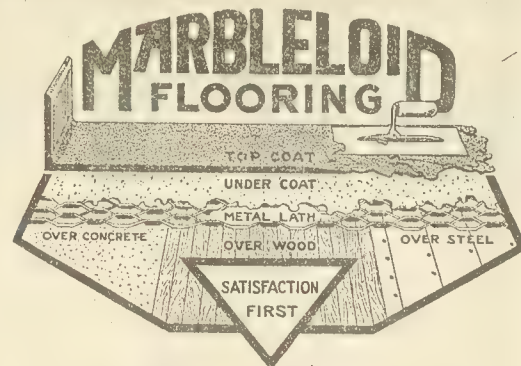
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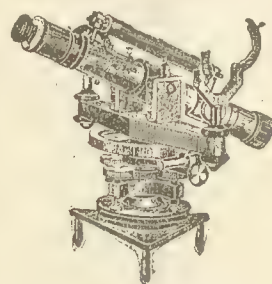
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 6

PHILADELPHIA
February 7, 1917



As The Editor Sees It



THE advanced cost of labor and material, it may be interesting to note, has affected adversely lines of activity other than building. The office building and apartment house owner, for example finds it difficult to maintain the equilibrium of his investment with everything from the coal that heats his tenants up to the dapper little chap in brass buttons who chauffeurs the "lifts" costing more money than they did a year ago.

"Most of the office buildings downtown," said B. E. Martin, President of the Building Managers' Association, "are now paying from \$14.50 to \$15 a week for good elevator operators, which represents an increase of \$2 within the last six months. In some buildings the pay is higher. Porters are getting about \$13 a week. The women cleaners who work a few hours a day are getting an average of \$6 a week. Up to a year or so ago the general rate was \$4.50 to \$5.

"This scarcity of help is due to higher wages obtained at the munition factories near the city. I know of an old porter who was receiving \$12 a week for several years. He is now in a factory at Bridgeport, where he gets \$21 a week. This is no isolated case and hundreds, perhaps thousands, of former workers in the buildings and apartment houses of New York have left their old jobs for factory work. Some of them are wise enough to realize that their present remunerative jobs will not last forever and have applied for their old positions when the war is over. There will be plenty of help then, doubtless, but meanwhile the subject is a difficult one and scores of inefficient men are being employed who would not be taken at the wages they demand under normal conditions."

EVERYTHING which enters into the building upkeep has advanced. Coal is the greatest expense now. For what I formerly paid \$3.75 a ton, the general price for a long time, \$5.50 must now be paid. Even common brooms, formerly \$4 a dozen, are now \$5.50."

Managers of the large apartment houses on both the east and west sides of the city report the same difficulty in obtaining efficient elevator operators and other help. Only a few days ago, one manager said, every employe in a large East Side house, except the superintendent, walked out and it was three days before the vacancies were filled. Despite the advance in wages, the scarcity continues.

While apartment house dwellers are going to pay from 10 to 15 per cent. more next October than for several years, this increase, according to apartment house agents, will have no effect in lessening the demand. Already the new houses nearing completion for occupancy on Oct. 1 on Parke avenue are well leased from the plans, and two were reported last week as being over 90 per cent. rented.

Of moderate-priced apartments from \$1,200 to \$2,000 in good parts of the city it is practically certain that there will be a scarcity next fall. The high cost of building has reduced the number of new houses which, under normal conditions, are ready for occupancy every year. The demand in the best east and west sections of the city seems certain to be in excess of the supply, and the recognition of this fact by far-sighted prospective tenants has caused, say the agents, the annual campaign of apartment house inquiry and leasing to begin earlier than ever known before.

IN spite of the almost prohibitive cost of labor and materials Philadelphia continues to establish new records for volume of building expenditures. Following a phenomenal year, January, according to official figures compiled by William W. Gamble, statistician of the Philadelphia Bureau of Building Inspection, shows a total of 613 separate operations, for which were issued 449 permits. The gross expenditure for the month reaches the enormous total of \$2,144,630. This, we are assured by Mr. Gamble, is the largest total of expenditure for new building in the opening month of a year since 1911, when \$2,657,480 was spent.

Following is a summary of structures of all kinds undertaken during the last month:

Dwellings, 2 story	140	\$361,800
Dwellings, 3 story	26	91,700
Dwellings, frame	4	8,650
Tenement houses	1	30,000
Manufactories	9	786,175
Workshops	5	4,980
Garages	42	61,330
Office buildings	3	100,500
Stores	2	18,500
Warehouses	5	36,000
Engine and boiler houses ..	1	5,000
Churches	1	1,400
Club houses	1	24,250
Parish buildings	1	23,000
Miscellaneous buildings..	9	12,335
Additions	67	346,600
Alterations and repairs..	174	201,240
Miscellaneous work	93	19,330
Heaters	20	8,200
Fire-escapes	6	2,850
Signs	3	790

Totals 613 \$2,144,630

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MANHATTAN ISLAND seems to be in danger of going hotel crazy. Twelve giant structures, intended for hotel purposes, are either in course of planning or under way in the big metropolis. These will represent, when completed, an outlay of approximately \$36,000,000, and will add something like 10,000 rooms to the city's hotel accommodations.

Experienced hotel men doubt the wisdom of so much hotel construction, while admitting that times are better than they have ever been. Fear that present conditions are only for a short period has caused them to urge caution. Times were when a hotel was not more than 75 per cent. full during most of the year. Some years the average has been as low as 50 per cent. But those were other years. The year just ended and the present one tell a different story, a story of a countrywide prosperity; an era which is not to die for a long time. Some hotel men are of the opinion that though caution is a good thing for a business man, it is out of place to-day. There is a scarcity of hotel accommodations in the city now.

The statement has been made that a few weeks ago 30,000 visitors found it impossible to get sleeping accommodations there and had to seek them in nearby cities and in the suburbs. The night before the Army and Navy football game New York's hotels were crowded as they never were before. Folks slept two and three in a room, and space which had never before been used for sleeping quarters was used on that night. Fear of failure to get hotel rooms kept many out of the city until the day of the game. This state of affairs would not have been had the hotel capacity of the city been less taxed by transient business.

* * *

COMPARATIVELY few New Yorkers appreciate the fact that New York has become the world's centre for many things, remarks the *New York Sun*. With Europe at war the Old World has no time for industries, trade, amusements and recreation. No other country but America can furnish the substitute, so those who have not joined the war forces for various reasons have come to America to do business and amuse themselves.

This has brought many to live in New York who never had been here. This new population lives in hotels, since it looks upon this city merely as a temporary stopping place. With Europe barred to travelers and pleasure and fashion seekers New York has become

the Mecca for this class. They are coming here every day by the thousands from the north, south, west and east. Here the business of the world is being done; here the fashion of the world is being created, and here the only pleasures of the world are to be had. New York is the centre of all things, according to many hotel men, who, in the light of this unusual situation, think that the spending of \$35,000,000 is good business and will not be regretted since a good part of this trade which has been turned to New York because of the war will remain if success crowns its efforts.

* * *

THE Advisory Council of New York Real Estate Interests is supporting the proposed amendment to the labor law with regard to the definition of a factory, as prepared by the Building Managers' Association. Many hardships are now imposed upon property owners by the strict enforcement of the law to buildings which were never intended to be classified as factories. At the present time there is hardly a building in the City of New York that would be exempt from the labor law, because a factory is defined as any building where more than two people are at labor. The recommendations of the Building Managers' Association have been gone over by the Board of Standards and Appeals, with the result that the following amendment is approved:

"In the City of New York no building principally used for other purposes shall be deemed a factory building unless the number of persons in such building regularly employed at manufacturing labor shall exceed fifteen; nor shall the provisions of the labor law relating to structural changes, plumbing and drainage, elevators, fire escapes, adequacy and means of exit, and the fire alarm systems and drills apply to such buildings, except that on appeal to the Board of Standards and Appeals, and after public hearing, other buildings having a larger number of persons regularly employed at manufacturing labor may be exempted.

"An amendment to Rule 4 of the Industrial Code has been prepared to allow existing twelve-story buildings built prior to Oct. 1, 1913, to use fire escapes as a means of exit. The existing rule only covers nine-story buildings. The proposed rule has been requested of the Board of Standards as well as an amendment for Rule 441 of the Industrial Code, to permit the use of a device on elevators and hoistways consisting of automatic trapdoors from seven to ten feet above the ground floor, supplemented by suitable warning signals."

NEW YORKERS are apparently awakening to the great need which exists in that city for modern factory buildings and model tenements in which to house the labor necessary to manufacturing enterprise. Goodwin Starrett advances the novel and interesting but entirely feasible idea that an intelligent use of capital might be made in transferring buildings of the industrial class to what are now known as slum districts—reclaiming by this means whole sections that are now eye-sores and breeding places for crime and disease. Mr. Starrett's outline of the restrictions which should govern a movement of the kind suggested are worthy perusal.

As the average cross street in New York is 60 feet wide, and as the blocks vary in width from 184 feet to 200 feet, a cardinal principle may be laid down that factory buildings should not be over the seven-story height; properly and permanently to safeguard the light of all stories; that the depth of any loft from front to rear should not exceed 70 feet on a 200-foot block. All light courts should be as wide as streets if any real value is to be given to space lights by these courts. The buildings should be built in units of from 250 feet to 350 feet of frontage separated by side yards or courts of from 30 to 40 feet in width. The buildings suggested here would be quadrangular and lighted on all sides, having double frontage with interior courts, 60 feet wide in their least dimension, separated from each other by a side yard or by service courts of from 30 to 40 feet in width.

The roofs in all cases should be made into recreation grounds, with provisions for the serving of the inexpensive meals for employees, and with wash rooms, bath-rooms, and other conveniences for the improvement of working conditions.

The buildings should be well built, and it costs no more to make them beautiful than to make them ugly.

* * *

IF this movement for "Model Manufacturing Buildings in New York" can be made effective, a similar campaign should be instituted and pushed to provide decent, clean, sanitary and comfortable tenements, adds Mr. Starrett. It is a disgrace to New York City, that vast areas of the city are covered with tenement houses that are not fit for human habitation. The city should condemn from one-quarter to one-third of all of this ground in congested areas, tear down the buildings, and turn the ground into park and playgrounds. All buildings which do not measure up to a high standard of comfortable and sanitary usefulness should be condemned and the owners compelled or assisted to build

modern tenements. It would pay in the long run.

A few public spirited citizens have demonstrated that model tenements will succeed, and such a general movement would immediately improve real estate values, and would tend to stop the great migration of residents to the outlying districts. Why should Manhattan, which carries nearly the whole burden of the cost of subways, with the consequent tax

assessments, actually pursue a policy which drives residents away? Would it not be better to use any necessary means to provide decent living accommodations in Manhattan? There is plenty of room, if a rational scheme were put in effect to provide tenements at locations reasonably related to organized manufacturing centres, and subway crowding would be relieved, and many great benefits would ensue.

EDITORIAL NOTES

A speaker at the Convention of the American Society of Mechanical Engineers estimated that \$324,000,000 worth of coal was being wasted every year, besides natural gas and crude oil. Many power plants, in his opinion, are wasting from ten to thirty per cent. of the coal burned. Such a condition should bring forcibly to the attention of building managers and others identified with building maintenance the need for greater consideration of power plant problems. If such enormous sums are being wasted, property owners should realize that the possibility presents itself of a reduction in the cost of building operation. In the final analysis this means an increase in the net income return.

* * *

The Merchants' Association of New York City have adopted preambles as follows:

I. Opposing government ownership and operation of public utilities.

II. Advocating the exclusive regulation of all railroads by the Federal Government.

The resolutions and appendent arguments have been prepared by its Committee on Transportation and put in pamphlet form. This matter will be taken before the Newlands Commission by representatives of the Merchants' Association. The Committee on Transportation has gone into this subject to great length and the matter now presented with the approval of the Association presents the results of their investigations.

* * *

The city of Seattle is to be congratulated upon the enactment of a forceful fire patrol ordinance, the rigid enforcement of which should have a marked influence in lowering the city's adverse fire loss record. The ordinance prescribes regulations for the proper construction and maintenance of all buildings and for their regular inspection by uniformed firemen under the direction of the city fire marshal. This ordinance is a distinct

and constructive document in the line of progressive municipal legislation. Copies of this ordinance may be obtained from Harry W. Bringham, Fire Marshal, Seattle, Washington.

* * *

William M. Bailey has been appointed assistant to the president of the Midvale Steel Company, Cambria Steel Company, Worth Brothers & Co., and the Wilmington Steel Company.

* * *

Philadelphia bank clearings for January were the highest ever recorded amounting to \$1,397,691,175. This compares with clearings of \$1,351,845,529 in December which had the previous high record. Clearings in January, 1916, were \$1,014,899,191.

* * *

Edward C. Dean announces that he has just opened an office for the practice of architecture, at 2 West 47th street, in connection with his main office at 1211 Connecticut avenue, Washington, D. C.

* * *

Joseph H. O'Brien, engineer for Westinghouse Church Kerr & Company, has been made vice-president of the General Construction Company, of Harrisburg, Pa. Mr. O'Brien has been associated with Westinghouse Church Kerr & Company for the last fourteen years.

* * *

William M. Acheson resigned Jan. 1, as division engineer of Division 6, New York State Highway Commission, to become chief engineer of the Crescent Portland Cement Company at Wampum, Pa.

* * *

Manhattan Fireproof Door Co., C. G. Norman, president, and F. John Seton, Inc., Frank J. Seton, president, announce their consolidation under the firm name of Norman-Seton, Inc. They will manufacture metal clad doors, windows, trim, roofing, skylight and cornice work, with factory and officers at Wingeld, L. I.

* * *

The Turner Construction Company of

New York, Buffalo and Boston, has received the general contracts for the erection of seven big factory and warehouse buildings, in the States of New York, New Jersey and Massachusetts, aggregating several millions of dollars. They will erect the following buildings:

For the Merchants' Refrigerating Company, one of the largest cold storage warehouses in Greater New York, to be built of reinforced concrete, eleven stories in height, which will measure 330x200 feet, and will occupy the entire block between Marginal street and Tenth avenue, 16th and 17th streets, Manhattan. J. B. Snook Sons are the architects.

For Colgate & Company, at Jersey City, N. J., a six story manufacturing building of reinforced concrete to measure, 102 x 50 feet. Warren Davey is the engineer.

For the Standard Oil Company of New Jersey, three buildings at their works at Claremont, Jersey City, N. J., including a three story kiln building, 180 x 54 feet, a four story cooperage building, 150 x 100 feet, and a two story barrel factory, 200 x 100 feet. F. Abrams is the engineer.

For the W. Becker Aniline & Chemical Works, at Ditmas avenue and 83rd street, Brooklyn, a four story warehouse, 2300 x 80 feet. The building will eventually be eight stories high.

For the Quincy Market Cold Storage & Warehouse Company of Boston, an eleven story cold storage warehouse, 152 x 140 feet, on the T. Wharf property in Boston. The building will cost ap-

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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Second Class Matter

Irving Dillon.....Editor

proximately \$1,000,000. J. R. Forchester & Company are the architects.

For the Hoboken Land & Improvement Company, a five story soap manufacturing building at 14th street and Willow avenue, Hoboken, to be leased to the Lightfoot Schultz Company. The building will measure 100 x 770 feet.

For the Vacuum Oil Company at Bayonne, N. J., two two-story buildings, irregular in shape.

* * *

The convention of the National Association of Builders' Exchanges of the United States is to be held in Atlanta, Georgia, February 13, 14 and 15. Secretary Charles Elmer Smith, of the Master Builders' Exchange of Philadelphia, has sent out the following announcement to local builders regarding arrangements:

"Those of our members desiring to attend this Convention, who will signify their intention of going, by sending their names to the Exchange, will be accredited Delegates from this Exchange, and their names will be forwarded to the Convention Committee.

They can participate in proceedings at Convention, and in all entertainment extended Delegates by the Atlanta people.

The sessions of the Convention will be held on Tuesday, Wednesday and Thursday, February 13th, 14th and 15th.

Entertainment will be extended Delegates and their Ladies, during the evenings of these days, and on Friday and Saturday, immediately following the close of the Convention.

On Friday, February 16th.

The Atlanta Exchange has arranged a trip to the Blue Ridge Marble Quarries, where a Georgia Barbecue will be served. On this trip the Convention and Ladies accompanying the Delegates will be the guests of the Blue Ridge Marble Company.

On Saturday, a trip to Historic Stone Mountain.

How to Get to Atlanta.

Leave West Philadelphia, Sunday, February 11th, at 6.52 P. M. Pennsylvania Railroad, arriving in Atlanta, Monday, the 12th, at 5.00 P. M.

Or leave Philadelphia, Monday, February 12th, at 1.30 P. M., arriving in Atlanta, Tuesday, the 13th, at 12 o'clock noon.

Fare each way to Atlanta, \$19.70; round trip, \$39.40.

Sleeping car, lower berth, \$4.75; upper berth, \$3.80.

Special Train.

There will be a special train leaving Washington, over the Southern Railway, at 9.30 P. M., Saturday, February 10th, stopping in Asheville, N. C., Sunday afternoon, from 12.00 to 5.00 o'clock, where sight-seeing has been arranged,

leaving Asheville at 5.00 P. M., arriving in Atlanta at 7.00 o'clock Monday morning.

Fare for this special trip from Washington to Atlanta (including trip to Asheville) and return, direct from Atlanta to Washington, \$24.60.

Pullman charges, lower berth, \$5.00; upper berth, \$4.00, going; returning, lower berth, \$4.00; upper, \$3.20.

The time consumed in making this trip home is about 23 hours. Fare from Philadelphia to Washington and return, \$6.80.

The dining car will serve breakfast and dinner at \$1.00 per meal.

There will be a special baggage car to carry such baggage as Delegates may desire.

In order to go on this Special, names must be in by February 1st, 1917.

DURABILITY OF WOOD.

The life of a wooden structure should be much greater than is usually the case. Houses have stood on the New England coast for a long period of years and kept their condition despite their nearness to the ocean and the dampness of sea breezes.

Not long ago when an old house was demolished in Stratford, Connecticut, a lumber company secured some of the materials from the old house after more than two hundred and forty years of use. The house had been built in 1670. It was used as a garrison during some of the Indian wars, and there were secret closets built into the walls as a refuge in case of attack. The town was partly destroyed by fire, but the old house escaped to be finally demolished. Some of the shingles which covered the side of the house were obtained by the lumber company.

These shingles were of white cedar and were manufactured in the old-fashioned way by the use of a draw knife. They were nailed with the old cut nails, and in recent years the exposed surface was covered with a coat of white paint or whitewash. Every part of these shingles that remains is still sound wood. The parts that were covered retain their original thickness and soundness. They are not even rotted around the nail holes. The exposed portion has been worn down, in some places to the thinness of paper, by the wind and weather.

HOW IT IS DONE.

First Councilman—"Here's a fine-looking street."

Second Ditto—"You're right. What's the best thing to do with it?"

"Let's have it dug up for a sewer."

"But wouldn't it be proper to pave it first?"

"Of course; I thought you would understand that. Then, after it is paved and a drain put in we'll have it repaved."

"All in readiness to be dug up again for

After Convention and Entertainment in Atlanta are over:

Sunday, February 18th.

To accommodate many who have expressed a desire to attend Mardi Gras at New Orleans, a special train of Pullman cars has been arranged to leave Atlanta at 10.00 A. M. on above date. This train will be parked at the depot in New Orleans and used as sleeping quarters, thereby avoiding the necessity for hotel accommodations while there.

Round trip fare, Atlanta to New Orleans, \$15.15. Sleeping car fare, approximately \$12.00.

Leaving New Orleans at 2.00 A. M., Wednesday, February 21st, for the return trip to Atlanta, making a brief stop in Montgomery, Alabama, reaching Atlanta in time for the evening trains for the North and East.

the gas pipe? I see you understand the principles of municipal economy. And after we have had it repaired for the second time, then what?"

"Well, then it will be ready for widening. There's nothing I admire so much as system in the care and improvement of our roadways."—"Real Estate Bulletin."

A MILLION DOLLAR MARBLE ORDER.

One million dollars' worth of Carthage stone and polished marble is to be supplied by the Lautz-McNerney Stone Company, of Carthage, Mo., for use in the \$15,000,000 Hotel Commonwealth. This order for material, which is to be erected in the Times Square district of New York, will be the largest hotel in the world and Manhattan's greatest midtown landmark.

The polished marble which the Lautz-McNerney Company is to deliver will be used for interior finish and tiling. The Carthage stone will be used for the exterior of the lower stories and for the trimmings of the upper stories, which will be of light gray hydraulic pressed brick.

Charles H. Ingersoll, vice-president and active head of Robert H. Ingersoll & Bros., makers of the famous dollar watches, is president of the Commonwealth Hotel Construction Corporation, the company which is to erect the hotel. Thirty widely known merchants and financiers are to be associated with Mr. Ingersoll as directors. The hotel will be owned and operated upon a co-operative plan, with approximately 150,000 shareholders.

Starrett & Van Vleck and Beverly S. King & Shiras Campbell, two noted firms of architects, have collaborated in producing the plans of the Commonwealth.

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (245), Sixteenth to Eighteenth streets and Oregon avenue to Johnson street. Architect, private plans. Owners, Charles M. Weild, 1610 Oregon avenue, and Frederick S. Park, 1620 Oregon avenue, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners ready for sub-bids.

Mill Building, Dye House and Boiler House, Sixteenth and Hunting Park avenue. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. (Engineer selected.) Owners, Bellevue Worsted Mills, Wistar street and P. & R. Railway. Brick (mill construction), 2 and 3 stories, 350x60 feet, 150x43 feet, 40x80 feet, slag roof, plank floors, rolled steel sash, fire doors. Plans in progress.

Bridge, South street, over Schuylkill River. Engineer, Jonathan Jones, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, City Hall, Philadelphia. Double bascule leaf bridge, steel, concrete piers, 576 feet long, asphalt paving. Plans in progress. Owners will take bids in four months.

Garage, rear 5815 Market street, Philadelphia. Architect, Robert E. Werner, care of owner. Owner, John Adams, on premises. Brick, 1 story, 140x64 feet, slag roof, steam heating, cement floors, electric lighting. Owner has received bids.

Residences (11), Garages in Basements, Twelfth and Wingohocking streets. Architect, private plans. Owner, Henry P. Schneider, 3713 Old York road. Brick, 3 stories, 16x54 feet, slate and slag roofs, hot water heating, electric lighting, metal lath, tile work, hardwood floors. Owner will take sub-bids in a few days.

Residence, Pelham road, above Hortter street, Germantown. Architect not yet selected. Owner, W. E. S. Dyer, Land Title Building, Philadelphia. Brick, 3 stories. Will build this spring.

Residence and Garage, Overbrook, Philadelphia. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Louis Burk, Third and Girard avenue, Philadelphia. Stone, 2½ stories, 53x33 feet; garage, 1½ stories, 22x25 feet, slate roofs, electric lighting, hot water heating, hardwood floors, tile work, cement work. Architects taking additional bids, due February 9th, from J. P. Thompson, Real Estate Trust Building; H. H. Burrell, 206 South Quince street, R. C. Ballinger & Co., 218 North Thirteenth street; George & Borst, 277 South Eleventh street, and P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

Stores and Residences (2), 2225-27 South Seventh street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Philip Davis, 1514 East Moyamensing avenue. Brick and stone, 2 and 3 stories, 14x52 feet, slag roof, hot air heating, combination lighting, tile and marble work, metal ceilings, bulks. Owner will take sub-bids in about one week.

Bridge No. 21 (alt.), east of Southampton. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Stone, reinforced concrete and timber (waterproofing reserved). Owners taking bids, due February 7th. The following are figuring: A. L. Carhart, Hale Building; Brann

& Stuart, Commercial Trust Building; Armstrong & Latta, Land Title Building, Philadelphia.

Coal Trestle, East of Aramingo avenue, Philadelphia. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Timber and concrete. Owners taking bids, due February 8th. A. L. Carhart, Hale Building; Brann & Stuart, Commercial Trust Building; Armstrong & Latta, Land Title Building, and F. A. Havens & Co., 845 North Nineteenth street, Philadelphia, are figuring.

Improvements to Public Parks and South Street Market, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, Room 113, City Hall. Parks, consists of cement and asphalt paving, concrete curbs and copings, grading, drainage, etc. Market, construction improvements and plumbing. Owners taking bids, due February 7th at noon.

Store (alts.), 335 West Girard avenue, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, P. D. Jacobson, on premises. Consists of interior and exterior alterations, new front, marble work, parquet floor, combination fixtures, tile work, cabinet work. Owner ready for bids.

Residences (6), Rising Sun lane and Godfrey street, Philadelphia. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, George T. Sale, Bailey Building, Philadelphia. Brick, stucco and frame, 2½ stories, 23x30 feet, slate and shingle roofs, electric lighting, hot air heating, tile work. Architects taking bids, due February 12th. H. A. L. Smink, Akron and Wakeling streets, and Joseph Ashby, Second street pike, Fox Chase; Graham-Campion Co., Heed Building; H. H. Wehmeyer, 1004 West Lehigh avenue, are figuring.

Office and Freight House (add.), Thirtieth and Market streets, Philadelphia. Architect, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and frame, 2nd-story addition, 40x64 feet, and freight shed, 1 story, 145x45 feet, steel, corrugated iron, slag roof, steam heating, electric lighting, plank and composition floors, rolling steel doors. Owners, care of Philadelphia Terminal Division, taking revised bids, due February 9th. The following are figuring: Lincoln H. Smith, Hale Building; Armstrong & Latta, Land Title Building; Brann & Stuart, Commercial Trust Building; John N. Gill & Co., Heed Building; Charles McCaul Co., 1713 Sansom street; John Goll & Co., 1539 Filbert street; A. L. Carhart, Hale Building; F. A. Havens & Co., 845 North Nineteenth street; E. E. Hollenback, Fifteenth and Race streets; Monaghan & Losse, 3016 Chestnut street; Driscoll Co., Stock Exchange Building; Metzger & Fisher, Denekla Building; Pomeroy Const. Co., 1609 Ransstead street; Bailey-Lush Co., 201 North Broad street; Abel Bottoms & Sons Co., 3611 Walnut street; Mitchell Bros., 2125 Race street; Roudhouse-Arey Co., 112 North Broad street; Irwin & Leighton, 126 North Twelfth street; John V. Speth & Co., 1714 Sansom street, and Hogg

Const. Co., 1634 Sansom street, all of Philadelphia.

Department Store (add.), Seventh and Filbert streets, Philadelphia. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, Lit Brothers, on premises. Brick, stone, steel and terra cotta, 7 stories, 85x264 feet, slag roof, metal lath, hollow tile, cabinet work, tile and marble work (heating, plumbing, electric work, ventilating and elevators reserved). Plans in progress.

Store, Residence and Garage, Broad street and Nedro avenue, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Dr. S. B. Davis, York road, Oak Lane, Philadelphia. Brick, 3 stories, 23x99 feet, slate roof, parquet floors, pine, cement and terrazzo floors, metal lath (hot water heating, plumbing, electric work, tile and marble work reserved). Architects taking revised bids, due February 7th. The following are figuring: F. L. Hoover & Sons, 1023 Cherry street; McCloskey & Bahls, 1620 Thompson street; Frank Burkholder, 1309 Champlost avenue, and Charles W. Stocker, 1320 North Carlisle street.

Garage (add.), 11 North Twenty-first street, Philadelphia. Architect undecided. Owners, Bartlett Garages, Inc., J. Crawford Bartlett, president, on premises. Reinforced concrete. Will build in spring.

Store and Dwelling (alts.), 1603 Walnut street, Philadelphia. Architect, private plans. Owner, H. K. Messick, northeast corner of Sixteenth and Chestnut streets. New caen stone front and bulks, marble work, mill work (plumbing, heating, electric work and interior decorating reserved). Owner has received bids.

Residence, Cliveden street, west of Wissahickon avenue. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Fletcher, McNally & Boas, Broad and Race streets, Philadelphia. Stone, 3 stories, 30x53 feet, wing 12x14 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Architect taking revised bids, due as soon as possible, from Charles Johnson, 5701 Boyer street, and George A. Boyd, 5012 Schuylker street.

Department Store (alts.), 1027 Market st., Philadelphia, \$50,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, George H. Earle, Jr., Tenth and Market sts., Philadelphia. Lessees, Epstein Bros., Seventh and Arch streets, Philadelphia. Brick, stone and steel (exterior and interior alterations), 7 stories, 27x200 feet, slag roof, steam heating, electric lighting, pine and oak floors. Plans in progress.

Warehouse, 764 South Fifth street, Philadelphia. Architect, David Lupowitz, 1118 Chestnut street, Philadelphia. Owner, M. R. Margulis, 762 South Fifth street, Philadelphia. Brick, 3 stories, 12x60 feet, slag roof, steam heating, electric lighting, skylights, concrete and yellow pine floors. Revised plans in progress.

Factory, Loudon and Stenton avenues, Germantown. Engineer, Kern Dodge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets, Germantown. Brick and concrete, 2 stories, 42x113 feet, slag roof, cement and pine floors, metal lath (heating, plumbing, lighting reserved). Engineer taking bids, due February

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7th. F. W. Van Loon, Denekla Building; H. H. Burrell, 206 South Quince street, and H. E. Baton, Twelfth and Sansom streets; I. T. Shoemaker, 1324 Walnut street; Wark-Yardley Co., 1737 Filbert street; Graham-Campion Co., Heed Building; Turner Concrete Steel Co., 1713 Sansom street; A. R. Raff Const. Co., 1635 Thompson street; Roydhouse-Arey Co., 112 North Broad street; Thos. C. Trafford, 1613 Sansom street; John V. Speth & Co., 1714 Sansom street; Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia, are figuring.

Church, Fifty-second and Haverford avenue, Philadelphia. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners, Hope German Reformed Church, Rev. Edw. H. Wessler, pastor, 1324 North Robinson street, Philadelphia. Stone, 1 story, 50x120 feet, slate roof, steam heating, pine floors. Plans in progress. Ready for bids in about six weeks.

Municipal Court (alts.), Twenty-first and Race streets. Architect, John T. Windrim, 1501 Commonwealth Building, Philadelphia. Owners, County Commissioners of Philadelphia, George F. Holmes, president, 134 City Hall, Philadelphia. Brick, alterations to first, third and fourth floors, composition floors, metal lath, mill work, wire work. Architect taking bids, due February 8th. H. H. Burrell, 206 South Quince street; Mitchell Bros., 2125 Race street, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Storage Shed, Seventeenth and Indiana avenue, Philadelphia. Architect, private plans. Owners, H. B. Smith Co., Westfield, Mass. Steel and corrugated iron, 1 story, 80x152 feet, A. P. M. roof, cement floors, A. P. M. skylights, rolling steel doors. Owners taking bids. F. W. Van Loon, Denekla Building, is figuring.

Theatre (alts.), Seventh and Snyder avenue, Philadelphia. Architect, Frank V. Greenstein, 71 Empire Building, Philadelphia. Owners, Grand Theatre Amusement Co., on premises. New terra cotta front, 1 story, metal lath, cement floors, tile and marble work, terrazzo work. Plans in progress. Architect ready for bids in one week.

Residence, Sentner street, Crescentville, Philadelphia. Architects, Sheen & Gill, Heed Building, Philadelphia. Owner, G. W. Risley, care of architects. Frame and plaster, 2½ stories, 24x32 feet, shingle roof, hot water heating, combination lighting, pine floors. Revised plans in progress. Architects will take sub-bids and general bids in a few days.

Department Store (alts. and add.), Eighth and Market streets. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owners, Strawbridge & Clothier, on premises. Consists of new fire tower, brick, reinforced concrete, 6 stories, slag roof, metal lath, fire doors (alterations to heating, lighting and sprinkler system reserved). Architect has received bids.

Warehouse (alts.), 12 South Sixth street, Philadelphia. Architects, E. F. Durang & Son, 1220 Locust street, Philadelphia. Owners, McGargee-Hare Paper Co., on premises. Brick and steel, 5 stories and basement, pine floors, hollow tile, fire door, metal skylights, tile and marble work (plumbing, heating, electric work and elevator reserved). Architects have received bids.

Office Buildings (alts.), Liberty and Lincoln, northeast corner of Broad and Chestnut streets, Philadelphia. Architects, Osbourn & Co., Inc., 1206 Finance Building, Philadelphia. Owner, John Wanamaker, Thirteenth and Chestnut streets, Philadelphia. Elevator shaft and concrete columns and foundations, hollow tile, steel doors, safety treads, A. P. M. skylight (elevator reserved). Architects have received bids.

Artillery Case Shop and Instrument Department Buildings (adds.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Col. George Montgomery, Frankford Arsenal. Brick, concrete, steel, stone trim, 1 and 2 stories, 199x49 feet, and 4 stories, 63x29 feet, maple floors, hollow tile, elevator, rolled steel sash, waterproofing, safety treads, metal window guards (heating and lighting reserved). Owners taking bids, due February 20th. In addition to those previously reported, Thomas Reilly, 1616 Thompson street; Austin Co., Transportation Building; William R. Dougherty, 1610 Sansom street; W. W. Anstine, 1218 Filbert street; E. F. Fonder, Land Title Building; Ketcham & McQuade, 1029 Brown street; William Steele & Sons, 1600 Arch street; Edw. Atkins, 249 South Twenty-fourth street; John McShain, 1610 North street; Warren, Moore & Co., Commercial Trust Building; James H. Wells, Heed Building; H. E. Baton, Twelfth and Sansom streets; P. J. Hurley, 1233 Cherry street; Standard Const. Co., 1713 Sansom street, and E. E. Pennock, Bourse Building, Philadelphia, are figuring.

Club House (alts. and add.), 1317 Spruce street, Philadelphia. Architect, W. L. Plack, 1208 Chestnut street, Philadelphia. Owners, Engineers' Club, on premises. Brick, 1 story addition, tin roof, oak floors, metal lath (electric work, fixtures and decorating reserved). Architect has received bids.

Dry Dock, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Bureau of Yards and Docks, care of F. F. Harris, Chief, Navy Department, Washington, D. C. Concrete, 110x1,000 feet. Lowest bidders: Maryland Dredging and Contracting Co., Fidelity Building, Baltimore, Md., \$2,500,000; Foundation Co., 233 Broadway, New York City, \$2,500,626.

Structural Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel and hollow tile, concrete foundations, 1 and 2 stories, 200x696

feet, gypsum composition and slag or asbestos roof, pine and concrete floors, rolled steel sash, waterproofing, safety treads, rolling steel shutters and doors (heating, lighting, plumbing, elevators and cranes reserved). Lowest bidders: P. F. Gormley Co., Union Trust Building, Washington, D. C., \$608,032, and Charles McCaul Co., 1713 Sansom street, Philadelphia, \$647,462.

Stores and Apartments, east side of Frankford avenue, north of Margaret street. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick and terra cotta, 3 stories, 70x80 feet, slag roof, steam heating, electric lighting, tile work (fixtures reserved). Architects have received bids.

Residences and Garages (8), Walnut lane and Morton street, Germantown. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owner, Walter S. Ballinger, Seventeenth and Arch streets, Philadelphia. Brick, stucco and hollow tile, 3 stories, 23x35 feet, slate roof, electric lighting, hardwood floors, tile work. Architects have received bids.

Power House, Coal Pocket and Pier Tunnel, Erie avenue yard, Philadelphia. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Brick and concrete, 1 story, 41x121 feet, concrete, 18x58 feet, concrete, 6x86 feet, slag roof, metal lath, rolled steel sash, waterproofing, steel doors, cement and brick floors (mechanical equipment reserved). Owners taking bids, due February 8th at noon. In addition to those previously reported, Thomas Reilly, 1616 Thompson street; Armstrong & Latta, Land Title Building; Standard Const. Co., 1713 Sansom street; I. T. Shoemaker, 1324 Walnut street; Charles McCaul Co., 1713 Sansom street; Seeds & Derham, 6314 Wissahickon avenue; Roydhouse-Arey Co., 112 North Broad street, and Mitchell Bros., 2125 Race street, are figuring.

Sunday School, Fifty-eighth and Springfield avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Springfield Methodist Episcopal Church, Rev. George P. Beck, pastor, 5852 Warrington avenue. Stone, 2 stories, 60x70 feet, slate roof. Plans in progress.

Industrial Plant, Hunting Park avenue and Henry street. Owners, Nice Ball Bearing Co., 504 Land Title Building. Size of lot, 987x528 feet. Details undecided. Will build in the spring.

Market Houses (2) (alts.), Second street, Pine to Lombard, Lombard to South streets, Philadelphia. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Bureau of City Property, Department of Public Works, Room 113, City Hall, Philadelphia.

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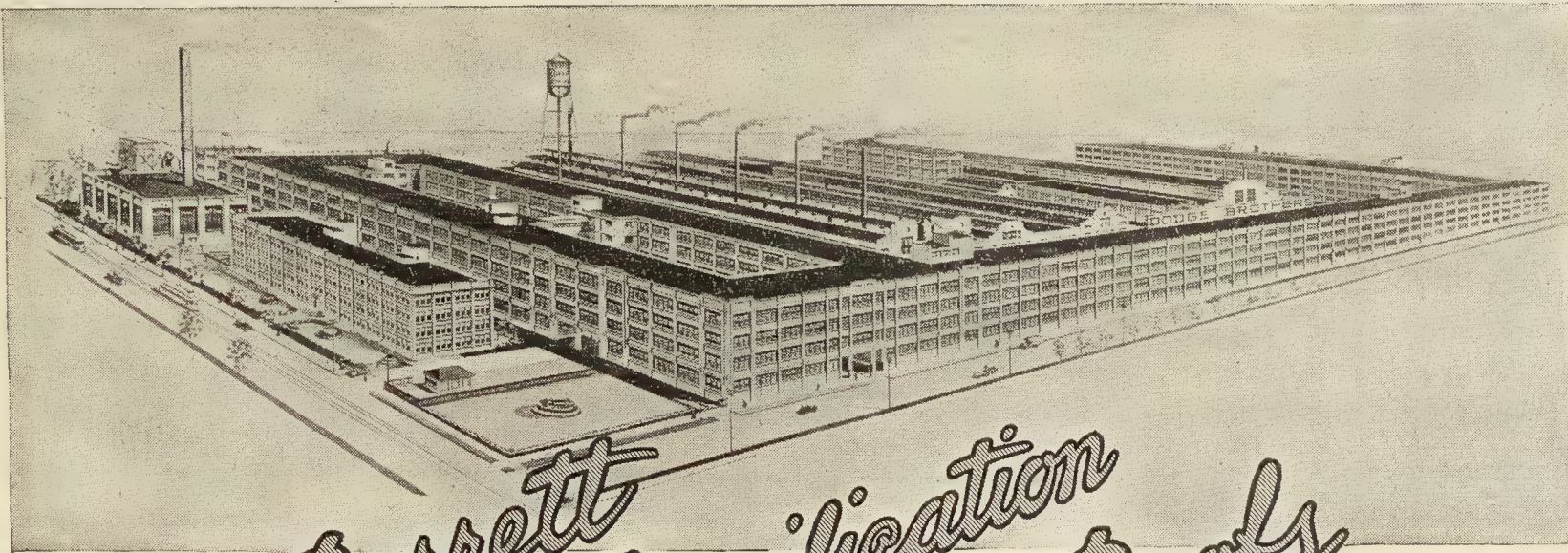
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Barrett Specification Roofs

FACTORY OF
DODGE BROTHERS,
Detroit, Mich.

Architects: Smith, Hinchman
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General Contractors:

W. E. Wood Company and Bryant
Detwiler Company, Detroit.

Roofing Contractors: The G. V. Candler
Company, Vaughn Roofing Company,
Detroit, and Standard Roofing Com-
pany, Chicago, Ill.

WE can't name names, but there are two other types of roofs that are offered for the large flat-topped permanent buildings where Barrett Specification Roofs are so generally used.

On the theory of securing more competition and a lower price, some architects make a custom of drawing specifications so broadly that any one of these three types of roofs is eligible, with the result that the flimsiest one, weighing 75 lbs. per 100 square feet, is occasionally selected by reason of its lower price instead of a Barrett Specification Roof, which contains 235 lbs. of waterproofing material when used over boards and 305 lbs. over concrete and is correspondingly more durable.

In the case of one type a higher fire insurance rate is sometimes an additional penalty.

Now, there is plenty of competition available if a Barrett Specification Roof is exclusively specified.

Roofers obtain their pitch and felt from us at equal prices and compete on the important items of labor, gravel, slag or tile, etc., involved in laying them.

If you want a cheaper, lighter and less permanent roof, specify that kind; but if you want a permanent, heavy, twenty-year-minimum roof that will take the base rate of fire insurance, and carries a 20-Year Surety Bond, specify a Barrett Specification Roof—and see that you get it!

Every architect knows that if he allows "white pine or hemlock," it will be hemlock.

If he is equally charitable to several grades of roofing, it will be the poorest and cheapest.

Specify specifically!

20-Year Guaranty Bond

We are now prepared to give a twenty-year Surety Bond Guaranty on every Barrett Specification Roof of fifty squares and over in all towns in the United States and Canada of 25,000 population and more, and in smaller places where our Inspection Service is available.

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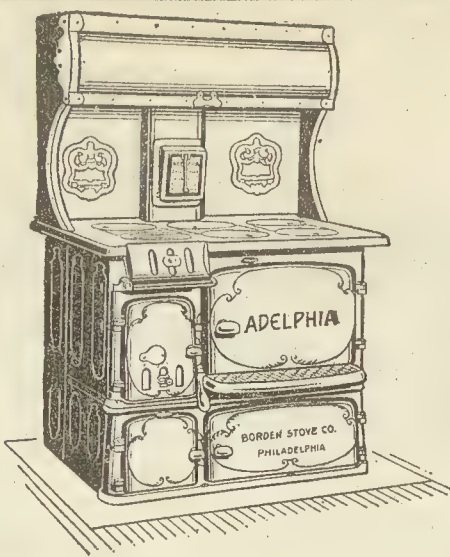
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phia. Brick and mill work, plank floors (plumbing separate bids), steel and timber, tin roof, cement floors, ventilators, skylights, metal window guards. Owners taking bids, due February 7th. H. E. Baton, Twelfth and Sansom streets; I. T. Shoemaker, 1324 Walnut street, and Wark-Yardley Co., 1737 Filbert street; Mitchell Bros., 2125 Race street; Jas. Connor, 1317 Arch street; E. C. Durell, 1713 North Twenty-fourth street; George Dobbin, 414 South Forty-first street; Standard Const. Co., 1713 Sansom street; McCloskey & Bahls, 1620 Thompson street, are figuring.

Store (alts.), 23 South Seventeenth street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Leon Dalsimer, Real Estate Trust Building, Philadelphia. Brick, 4 stories, hardwood and pine floors, metal lath, metal bulks, tile and marble work. Plans in progress. Architect ready for bids in ten days. (Steam heating and electric work reserved.)

Bridge, Fifth and Allegheny avenue, Philadelphia. Engineer, Jonathan Jones, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, City Hall, Philadelphia. Steel and concrete, 1 span, 55 feet long, asphalt paving. Owners taking bids, due February 15th. The following are figuring: McClintic-Marshall Co., Morris Building; Cantrell Const. Co., Twenty-first and Sedgely avenue; Phoenix Bridge Co., 410 Walnut st.; James G. Madden, Liberty Building; F. J. Boas, 201 North Broad street; Snare & Triest Co., and M. & J. B. McHugh, 892 North Markoe street.

Bridges (2), Cobb's Creek Parkway, Philadelphia, \$28,000. Engineer, Jonathan Jones, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, City Hall, Philadelphia. Concrete and stone, 2 spans, 65 feet long. Owners taking bids, due February 15th. The following are figuring: H. E. Baton, Twelfth and Sansom streets; McClintic-Marshall Co., Morris Building; Cantrell Const. Co., Twenty-first and Sedgely avenue; Phoenix Bridge Co., 410 Walnut st.; James G. Madden, Liberty Building; F. J. Boas, 201 North Broad street; Spare & Triest, 78 South Wharves; M. & J. B. McHugh, 892 North Markoe street.

Residence and Garage, Fifty-third and Wynnefield avenue, Wynnefield, \$20,000. Architect, Richard C. Loss, 1017 Chestnut st., Philadelphia. Owner, Wm. Sharpless, 147 N. Tenth street, Philadelphia. Stone, 2½ stories. Plans in progress. Architect will take bids in one week.

Residences (47) and Garages, Jefferson st., from Fifty-ninth to Sixtieth streets. Architect, private plans. Owner, Edwin L. Seeds, 5146 Market street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking sub-bids.

Factory Building, Tioga and Gaul streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Gill & Co., Inc., York and Thompson streets, Philadelphia. Brick, 3 stories, size of lot, 3 acres. Details undecided. Plans about to be started.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Market House (alts.), 22-24 North Delaware avenue, Philadelphia. Architects, Construction Department Swift & Co., 60 North Market street, Boston, Mass. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, steel and concrete, 5 stories (alterations to first three floors only), pine and asphalt floors, metal lath, waterproofing, fire doors, tile work, hollow metal skylights, rolling steel shutters,

(electric work, steam heating, elevators and refrigerating reserved). Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Loft Building, southwest corner of Marshall and Cherry streets, \$100,000. Architect, Frederick Webber, 1421 Chestnut street, Philadelphia. Owner's name withheld. Brick, steel, reinforced concrete and terra cotta, 6 stories,

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slag roof, steam heating, electric lighting, metal lath, sheet metal sash, waterproofing, fire doors, cement and mosaic floors, elevators. Contract awarded to Nickson-Duggan Const. Corp., 1218 Chestnut street, Philadelphia.

Garage (alt.), 5338 Germantown avenue, Philadelphia, \$3,000. Architect, private plans. Owner, R. J. McGarrigle, on premises. Brick, 1 story, consists of tearing out brick wall and erecting steel girders. Contract awarded to Henry Specht, Willow Grove, Pa.

Bank (alt.), 610 South Second street, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Southwark National Bank, W. W. Foulkrod, president, on premises. Consists of interior alterations, steam heating, electric lighting, plumbing, pine floors, metal grilles, cabinet work, marble work. Contract awarded to F. T. Mercer Co., 1726 Delancey street, Philadelphia.

Garage, 1509-11 Germantown avenue. Architect, Herman H. Kline, Sixth and Mifflin sts., Philadelphia. Owner, Harry Katz, 1537 Germantown avenue. Brick, 1 story, 40x96 feet, slag roof, galvanized iron skylights, cement floors, electric lighting, steam heating. Contract awarded to Albert Schmitt, 2449 North Hancock street, Philadelphia.

Store Building (add.), 1644 Ludlow street, Philadelphia, \$1,500. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Leon Dalsimer, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 13x14 feet, slag roof, steam heating, electric lighting, metal ceiling. Contract awarded to Freund Const. Co., Bulletin Building, Philadelphia.

Cafe and Saloon (alt. to first and second floors), northwest corner of Delaware avenue and Chestnut street, Philadelphia, \$3,000. Architect, Le Roy B. Rothschild, 414 Bulletin Building, Philadelphia. Owner, I. Lowenstein, on premises. Brick, electric lighting, metal lath, new bulks, metal ceilings, tile work. Contract awarded to John Schuster, 3552 North Fifteenth street, Philadelphia.

Residence (alt. and add.), Chestnut Hill, Pa., \$35,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, Land Title Building, Philadelphia. Stone, brick, hollow tile and plaster, 2½ stories, shingle and tin roof, electric lighting, hardwood floors, cabinet work, tile and marble work. Contract awarded to Geo. F. Payne & Co., 401 South Juniper street, Philadelphia.

Pathological Laboratory Building, Thirty-fourth and Pine streets, Philadelphia, \$207,785. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Health and Charities, Dr. Wilmer Krusen, Director, 584 City Hall. Brick, steel and hollow tile, stone and terra cotta trim, 3 stories, 121x82 feet, slag roof, metal lath, rolled steel sash, waterproofing and dampproofing, rolled steel skylights, wire work, tile and marble work, cement floors, metal lockers, metal weather strips, terrazzo work (elevator, electric work, plumbing, ventilating and refrigerating reserved). Contract awarded to Charles McCaul Co., 1713 Sansom street, Philadelphia.

Office Building (alt.), Sixth and Shipley streets, Wilmington, Del., \$1,700. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Diamond State Telephone Co., care of Nathan Bayward, engineer, 1631 Arch street, Philadelphia. Consists of iron floor and stairway. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Cafe and Restaurant (alt. and add.), 3212 Market street, Philadelphia. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, P. J. Ryan, on premises. Brick and stone, 3 stories, 47x18 feet, add. 2 stories, tin and slag roof, electric lighting, metal lath, waterproofing and cement paving (plumbing, bar fixtures, hot water heating and cabinet work reserved). Contract awarded to Julius A. Raith Sons, 304 Master street.

Store and Dwelling (alt.), 1603 Walnut st. Architect, private plans. Owner, H. K. Messick, northeast corner Sixteenth and Chestnut streets, Philadelphia. New caen front and bulks, marble work, mill work (plumbing, heating, electric work and interior decorating reserved). Contract awarded to F. T. Mercer, 1220 Chancellor street.

Stores (alt.), 125-127 South Thirteenth st., Philadelphia, \$6,000. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Millards Dress Shop, on premises. New metal front, interior alterations, 2 stories, 32x92 feet, steam heat, electric lighting, hardwood floors, tile and marble work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

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PENNSYLVANIA

Construction News

Store (alt. and add.), 206 West State street, Media, Pa. Architect, Arthur G. Thorp, 404 West State street, Media, Pa. Owner, J. Harvey Sweeney, 124 South Orange street, Media, Pa. Brick and plaster, 3 stories, one-story addition, 19x16 feet, slag and tin roof, hot water heating, electric lighting, oak, pine and cement floors, new bulks, wall board, dumb waiter. Architect taking bids, due February 16th. James B. Flounders, 1329 Arch street, Philadelphia, is figuring.

Home Buildings (3), Elizabethtown, Pa. Architect, C. Emlen Urban, Lancaster, Pa. Owners, Committee on Homes of the R. W. Grand Lodge, F. and A. M., in Pennsylvania, Pittsburgh, Pa. Stone and hollow tile, 3 stories, (1) 97x38 feet and (2) 39x73 feet, slate roof, composition and maple floors, metal lath, tile and marble work (weather strips, plumbing, electric work, vacuum cleaner, hot water heating, painting and lighting fixtures reserved). Architect taking revised bids, due February 15. Pringle Borthwick, 8018 Germantown avenue; A. R. Raff Const. Co., 1635 Thompson street; Metzger & Fisher, Denckla Building, Philadelphia; Beard Const. Co., Reading, Pa.; F. W. Roberts, Elizabethtown, Pa., and Herman Wohlson, Lancaster, Pa., are figuring.

Bridges (2), north of Manheim, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and timber, 70 feet long. Owners taking bids, due February 8th. A. L. Carhart, Hale Building, and Brann & Stuart, Commercial Trust Building, Philadelphia, are figuring.

Bridge, east of Harpers, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel. Owners taking bids, due February 8th. A. L. Carhart, Hale Building, and Brann & Stuart, Commercial Trust Building, Philadelphia, are figuring.

School, Rockdale, Pa. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Board of Ashton Township, Pa. Stone and brick, 2 stories, 90x52 feet, slag roof, gum and cement floors (plumbing, heating, ventilating and lighting separate bids). Owners, care of Dr. A. S. Gay, R. F. D. No. 2, Media, Pa., taking bids, due February 6th. (Note extension). Wark-Yardley Co., 1737 Filbert street, are figuring,

in addition to those previously reported.

School, Palmerton, Pa., \$25,000. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Palmerton, Pa. Brick, stone trim, 2 stories and basement, 92x63 feet, slag roof, steam and hot air heating, yellow pine floors (electric lighting, heating and plumbing reserved). Architect taking bids, due February 15th. The following are figuring: C. S. Strayer & Eshelman, Harrisburg, Pa.; L. M. Kratz & Sons, Jacob A. Nagle, W. A. Stein & Co., all of Allentown, Pa.; Andrew Breslin, Summit Hill, Pa., and Beard Const. Co., Reading, Pa.

Moose Temple, Third and Boas streets, Harrisburg, Pa., \$70,000. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, Loyal Order of Moose, No. 107, Harrisburg, Pa. Rough brick and stone, 3 stories and basement, 155x48 feet, slag roof (electric lighting, plumbing and heating reserved), metal lath and sash, dampproofing, fire doors, ventilators, store front, leaded glass. Plans in progress. Architect ready for bids.

Bank Building (alt.), Chambersburg, Pa. Architect, R. R. Markley, Patriot Building, Harrisburg, Pa. Owners, Farmers and Merchants' Trust Co., Chambersburg, Pa. Stone, 15x30 feet, marble work, interior alterations. Plans in progress.

High School, Duncannon, Pa. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Duncannon, Pa. Brick, stone trim, 2 stories. Preliminary plans in progress. Too early for details.

Store Building and Apartments, 515 Walnut street, Harrisburg, Pa. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, Morris Caplan, 426 Walnut street, Harrisburg, Pa. Brick, 3 stories, 25x75 feet, slag roof (heating reserved), electric lighting, yellow pine floors. Owner taking bids. J. Franklin Saussman, 1713 North street, Harrisburg, Pa., is figuring.

Residence, East Harrisburg, Pa., \$4,000. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Walter G. Kochel, East Harrisburg, Pa. Brick, 2 stories, 30x35 feet, slate roof, steam heating, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Church, Front and Woodbine streets, Harrisburg, Pa. Architects, Kelker & Johnson, 10 North Market street, Harrisburg. Owners, congregation of First Christian Science

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Church, care of architects. Stone, 1 story and basement, 35x80 feet, tin roof, hot air heating, electric lighting, concrete floors. Architects have received bids.

Rectory, Conshohocken, Pa. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Matthew's parish, care of Right Rev. Archbishop E. F. Prendergast, Rev. Jas. P. Parker, Conshohocken, Pa. Stone, 3 stories, 37x68 feet, slate and slag roof, cement, oak and pine floors, terrazzo work, tile and marble work, metal window guards (plumbing, heating, electric work reserved). Architect taking bids, due February 10th at noon. Melody & Keating, 1322 Race street; William R. Dougherty, 1610 Sansom street; William J. McShane, 417 South Thirteenth street; Doyle & Co., 1519 Sansom street, and Charles McCaul Co., 1713 Sansom street, Philadelphia, are figuring.

Masonic Home (alt. and add.), Quakertown, Pa., \$15,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Masonic Lodge of Quakertown, Pa. Stone, 3 stories, 23x36 feet, slate roof, steam heating, electric lighting and gas lighting, yellow pine floors. Plans in progress.

Sunday School (alt.), Doylestown, Pa., \$9,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Doylestown Presbyterian Church, Doylestown, Pa. New steam heating and folding partitions. Preliminary plans in progress.

Store Building (alt.), Doylestown, Pa., \$5,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Doylestown Drug Co., Doylestown, Pa. Consists of interior alterations, new front and fixtures. Plans in progress.

School, Fallsington, Bucks County, Pa., \$25,

000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, School Board, Fallsington, Pa. Brick and hollow tile, fireproof, 1 story, 8x90 feet, slate roof, steam heating, electric lighting, concrete floors, hollow tile. Plans in progress. Architect will take bids in about two weeks.

Residence and Garage, Hatboro, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Walter Reading, 135 Dyre street, Frankford, Philadelphia. Hollow tile, 2½ stories, 35x26 feet, green slate roof, hot water heating, electric lighting, hardwood floors, hollow tile. Architect taking bids. Specht & Sperry, Heed Building; W. John Stevens, Wynecote, Pa.; John Ramsey, Ivyland, Pa., and Samuel Krusen, Hatboro, Pa., are figuring.

Bungalow, Doylestown, Pa., \$3,000. Architect, Oscar L. Leidy, Doylestown, Pa. Owner, Austin G. Barndt, Doylestown, Pa. Hollow tile, 2 stories, 26x26 feet, slate roof, hot water heating, electric lighting, yellow pine floors, hollow tile work. Architect taking bids, due February 12th. David D. Nice, Lewis Trefinger, John Bailey and Richard Tucker, all of Doylestown, Pa., are figuring.

Residence (alt. and add.), Doylestown, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, W. Atlee Burpee, Jr., 475 North Fifth street, Philadelphia. Stone, frame and plaster, 2½ stories addition, 16x25 feet, slate roof, oak floors, metal lath, tile work (plumbing, hot water heating, electric work reserved). Plans in progress. Architect will be ready for bids in two weeks.

Residence, Wynnefield avenue and Georges Lane, Wynnefield, Pa. Architect, Paul M. Hesser; consulting architect, Paul A. Davis,

3rd, 1713 Sansom street, Philadelphia. Owner, William T. Bryan, 1322 Chestnut street, Philadelphia. Stone, brick and plaster, 2½ stories, 51x31 feet and 11x22 feet, slate and tin roof, hot water heating, electric lighting, metal lath, hardwood floors, tile and marble work. Architect taking bids, due February 17th. F. E. Wallace, 1220 Chancellor street; James H. Wells, Heed Building; H. E. Grau Co., 1709 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; Wm. H. Eddleman & Sons, 453 Green lane, J. S. Cornell & Sons, Land Title Building; Stacy Reeves & Sons, 2011 Market street, Philadelphia, and Geo. L. Croll, Rosemont, Pa., are figuring.

Hotel (add.), Ivyland, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Samuel Millwark, Speedway Inn, Ivyland, Pa. Frame, 1 story, 60x40 feet, shingle roof, hot water heating, electric lighting. Architect will take bids in a few days.

Residence (alt. and add.), Rockland and Vine streets, Lancaster, Pa. Owner, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Hollow tile, 3 stories, slag roof, hot water heating, electric lighting, yellow pine floors. Plans in progress.

Double Residence, Coatesville, Pa., \$6,000. Architects, Maginnis & Slawter, New National Bank Building, Coatesville. Owner, Lewis Cohen, Coatesville, Pa. Brick, 2½ stories, 30x45 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Plans in progress.

Bungalow, Colonial Gardens, Coatesville, Pa., \$4,000. Architects, Maginnis & Slawter, New National Bank Building, Coatesville. Owner, Mr. Muhleig, care of architect. Brick,

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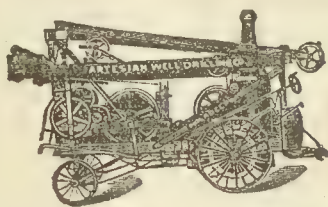


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Warehouse, Mulberry street, Lancaster; Pa. Architect, J. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Sheet Metal and Supply Co., Lancaster, Pa. Brick, 1 story, 34x24 feet, slag roof, electric lighting, wood floors, fire doors. Plans in progress.

Twin House, Grand View Park, Lancaster, Pa. Architect, M. R. Evans, 10 East Orange street, Lancaster, Pa. Owners, Lancaster Real Estate Co., Lancaster, Pa. Brick, 2½ stories, 30x60 feet, tin and slate roof, yellow pine floors, electric lighting. Owners taking bids. Samuel Bailey and Walter Zook, both of Lancaster, Pa., are figuring.

Residences (6), Norristown, Pa. Architect, private plans. Owners, Land Bros., 125 West Wood street, Norristown, Pa. Brick, 3 stories, 16x44 feet, slag and shingle roof, hot water heating, electric lighting, pine floors (plumbing reserved). Owners will take sub-bids in a few days.

Garage, Seventh and Market streets, Chester, Pa. Architect, private plans. Owners, Gallagher Bros., Chester, Pa. Brick and concrete, 3 stories, 100x75 feet, slag roof, steam heat, electric lighting, cement and pine floors,

elevator, gasoline storage system. Owners have received bids.

Shop, Chester, Pa. Architect, private plans. Owners, Sun Shipbuilding Co., Finance Building, Philadelphia. Frame, 2 stories, 200x50 feet, composition roof, pine floors. Owners taking bids, due as soon as possible. In addition to those previously reported, Pomeroy Const. Co., 1609 Ranstead street, Philadelphia, are figuring.

School, Biddle and Church streets, West Chester, Pa. Architect, Paul A. Davis, 3rd, 1713 Sanson street, Philadelphia. Owners, Board of Education, W. H. Lewis, secretary, West Chester. Brick, stone, concrete and terra cotta, 3 stories, 147x66 feet and 70x41 feet, asbestos and asphalt roof, cement and pine floors, metal lath, waterproofing, fire doors (ventilators, steam heating, electric work, plumbing separate bids), hollow tile, tile work. Owners taking bids, due February 22nd. Plummer E. Jefferis, West Chester, Pa., is figuring, in addition to those previously reported.

Factory, Bristol, Pa. Engineer, Wager Fisher, Commonwealth Building. Owners, Rohm & Haas, 40 North Front street, Philadelphia. Brick (slow burning), 2½ stories, 32x52 feet, slate roof, plank and maple floors (plumbing, heating and lighting reserved). Engineer taking bids, due as soon as possible. Metzger & Fisher, Denckla Building, are figuring.

Residence (alt. and add.), Rockland and Vine streets, Lancaster, Pa. Owner, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Hollow tile, 3 stories, slag roof, hot water heating, electric lighting, yellow pine floors. Plans in progress.

Double Residence, Coatesville, Pa., \$6,000. Architects, Maginnis & Slawter, New National Bank Building, Coatesville. Owner, Lewis Cohen, Coatesville, Pa. Brick, 2½ stories, 30x45 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Plans in progress.

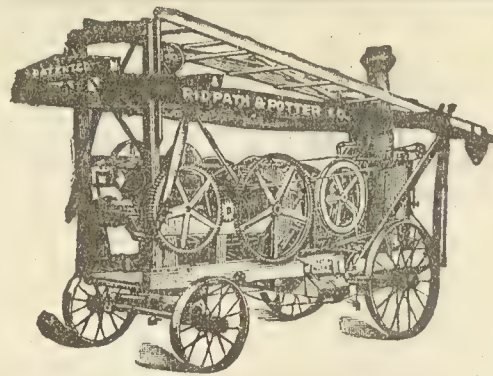
Storehouse, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, War Department, Washington, D. C. Brick, concrete and steel, 1 story, 50x200 feet, asbestos roof, concrete floors, rolled steel sash,

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dampproofing, fire doors. Lowest bidders, Edw. Fay & Sons, 2 South Mole street, \$31,887; McCloskey & Bahls, 1620 Thompson st., \$32,144.

Residence (alt.), Jenkintown, Pa. Architect, Albert F. Schenk, Real Estate Trust Building, Philadelphia. Owner's name withheld. Brick and plaster, 2½ stories, hardwood floors, tile work (plumbing and electric work reserved). Plans in progress. Architect will take bids in one week.

Bungalow, Colonial Gardens, Coatesville, Pa., \$4,000. Architects, Maginnis & Slawter, New National Bank Building, Coatesville, Pa. Owner, Mr. Muhleig, care of architect. Brick, 1½ stories, 43x32 feet. Plans completed.

Theatre, Main street and Second avenue, Coatesville, Pa., \$60,000. Architects, Maginnis & Slawter, New National Bank Building, Coatesville, Pa. Owner's name withheld. Brick and steel, 1 story, 150x60 feet, slag roof, steam heating, tile and concrete floors, electric lighting, tile and marble work. Plans about to be started.

Garage and Warehouse, 600 Arch street, Pottsville, Pa. Architect, William Houser, Pottsville, Pa. Owner, Mr. Haus, Pottsville, Pa. Brick, 2 stories, 30x50 feet, slag roof, electric lighting, concrete and yellow pine floors. Owner taking bids. Wertley Bros. and C. Messersmith, both of Pottsville, Pa., are figuring.

Residences (2), West Market street, Pottsville, Pa. Architect, John Hauser, Laurel st., Pottsville, Pa. Owners, Diamond Bros., Pottsville, Pa. Brick. Plans in progress.

Warehouse, Mulberry street, Lancaster, Pa. Architect, J. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Sheet Metal and Supply Co., Lancaster, Pa. Brick, 1 story, 34x24 feet, slag roof, electric lighting, wood floors, fire doors. Plans in progress.

Twin House, Grand View Park, Lancaster, Pa. Architect, M. R. Evans, 10 East Orange street, Lancaster, Pa. Owners, Lancaster Real Estate Co., Lancaster, Pa. Brick, 2½ stories, 30x60 feet, tin and slate roof, yellow pine floors, electric lighting. Owners taking bids. Samuel Bailey and Walter Zook, both of Lancaster, Pa., are figuring.

PENNSYLVANIA

Contracts Awarded

Office Building (add.), Ivy Rock, Pa., \$30,000. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Alan Wood Iron and Steel Co., Widener Building, Philadelphia. Reinforced concrete, brick and terra cotta, 2 additional stories, 47x112 feet, slag roof, oak and maple floors, hollow tile,

metal lath and sash, fire doors, ventilators, tile and marble work, metal window guards (plumbing, heating, electric work and fixtures, elevator reserved). Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

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rector, Collingswood, N. J. Hollow tile and stucco, 1 story and basement, 31x70 feet, slate roof, hot water heating, combination lighting, metal lath, safety treads, North Carolina pine floors, hollow tile work. Contract awarded to Phila. Const. Co., 9 South Eighteenth street, Philadelphia.

NEW JERSEY Construction News

Manufacturing Building, Second and Clinton streets, Camden, N. J., \$36,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Strandwitz & Scott, care of architects. Brick and concrete, 2 stories, 60x150 feet, slag roof, wing 18x80 feet (steam heating, electric lighting, elevators and plumbing reserved), metal lath and sash, waterproofing, fire doors, ventilators, metal window guards, metal lockers. Architects taking bids, due February 17th. The following are figuring: Wark-Yardley Co., 1737 Filbert street; F. W. Mark Const. Co., Inc., Finance Building; Barclay White & Co., 1713 Sansom street; Smith-Hardican Co., 1606 Cherry street; Driscoll Co., Stock Exchange Building, all of Philadelphia; J. S. Rogers Co., Moorestown, N. J.; E. F. Turner Const. Co., 828 Broadway, and Geo. Bachman, 19 North Thirtieth street, both of Camden, N. J.

Masonic Home, Haddonfield, N. J. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owners, Masonic Lodge, No. 130, F. and A. M., Wm. M. Hodgson, chairman Building Committee, 124 Market street, Philadelphia. Brick, 2 stories. Preliminary sketches completed.

Municipal Pier, Auditorium and Buildings (2), Stone Harbor, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Borough of Stone Harbor, S. E. Herbert, Mayor, Stone Harbor, N. J. Frame and timber 1 and 2 stories, 240x90x51 feet, shingle roof, pine and maple floors, electric lighting, skylights. Architect taking bids, due February 12th. (Note extension.) In

addition to those previously reported, O. F. Ferree, Stone Harbor, N. J., and Edw. L. Bader, Atlantic City, N. J., are figuring.

School (add.), Woodlynne, N. J., \$14,000. Architect, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Woodlynne, N. J. Brick, 2 stories and basement, 60x38 feet, slag roof, steam heating, combination lighting, gum wood floors, hollow tile work, ventilators, safety treads, metal window guards. Architects taking bids, due February 15th. The following are figuring: McCloskey & Hahls, 1620 Thompson street; Phila. Const. Co., 9 South Eighteenth street, both of Philadelphia; B. K. Garrison, 105 North Fourth street, Millville, N. J.; J. S. Rogers Co., Moorestown, N. J.; C. H. Stewart, Woodlynne, N. J.; Peterson Const. Co., Clayton, N. J.; G. W. Shaner & Sons, Palmyra, N. J., and the Turner Const. Co., 828 Broadway, Camden, N. J.

Laboratory Building, Taylor and Quarry alleys, Trenton, N. J. Architect, Geor. S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Department of Conservation and Development, State House, Trenton, N. J. Brick, terra cotta and stone trim, 3 stories, 40x52 feet, asphalt slag and asphalt slate roof, cement and maple floors, waterproofing, fire doors, dumb waiter, metal skylight (heating, lighting and plumbing separate bids). Lowest bidders, Scott & Day, 114 North Montgomery street, Trenton, \$16,648; S. W. Mather & Sons, Greenwood and Canal streets, Trenton, \$17,948.

NEW JERSEY Contracts Awarded

Y. M. C. A., New Brunswick, N. J., \$110,000. Architects, Shattuck & Hussey, Chicago, Ill. Owners, Y. M. C. A., New Brunswick, N. J. Brick, steel, terra cotta and concrete, 4 stories, 89x170 feet, wing 50x25 feet, composition roof, composition floors, marble and tile work, iron stairs, safety treads, steel sash, roof ventilators (heating, plumbing and electric work reserved). Contract awarded to Hughes-Fulkrod Co., Commonwealth Building, Philadelphia.

Factory (add.), Camden, N. J., \$30,000. Architect, private plans. Owners, Eavenson & Levering, 217 Atlantic street, Camden, N. J. Brick (slow burning), 3 stories, 80x200 feet, slag roof, maple floors (sprinklers and ventilating reserved). Contract awarded to George Kessler Cont. Co., Drexel Building.

Parish House, Collingswood, N. J., \$9,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Holy Trinity P. E. Church, Rev. J. Wallis Ohl,

Maryland Construction News

Hotel (add.), Fayette street, near St. Paul street, Baltimore. Architect, A. Lowther Forrest, Title Building, Baltimore. Owners, Hotel Junker, on premises. Consists of one additional story, brick, steel and concrete, 40x50 feet. Plans in progress.

Apartments (5), Pennsylvania avenue, near Orem avenue, Baltimore, Md. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore. Owners, Jackson Realty Corp., 612 Equitable Building, Baltimore. Brick, 3 stories, slag roof, steam heating, electric lighting, tile work, hardwood floors. Plans in progress.

School, No. 47 (add.), Eastern avenue and Linwood street, Baltimore, \$200,000. Architect, A. Cookman Leach, 223 North Charles street, Baltimore. Owners, City of Baltimore, J. H. Preston, Mayor, City Hall, Baltimore. Brick, 3 stories, slate or slag roof, steam heating, electric lighting. Plans in progress. Owners will advertise for bids upon completion of plans.

Church, Twenty-fifth street, Baltimore, Md. Architect, G. W. Kramer, 1 Madison avenue, New York City. Owners, Twenty-fifth Street Christian Church, Rev. B. H. Melton, 407 Bretton Place, Guilford, Md. Stone, 1 story, slate roof, electric lighting, steam heating. Plans in progress.

Church (alt. and add.), Read and Cathedral streets, Baltimore, Md. Architect, W. H. Ritter, Tappan street, Brookline, Boston, Mass. Owners, Emmanuel P. E. Church, Dr. Hugh Birkhead, 18 West Read street, Baltimore. Brick, consists of new heating, electric lighting, painting, plumbing and concrete work. Plans in progress.

Factory, Calverton road and Lexington st., Baltimore, Md. Architect, James R. Edmunds, Jr., Munsey Building, Baltimore, Md. Engineer, H. F. Doleman, American Building, Baltimore. Owners, International Wood and Paper Co., on premises. Brick, 3 stories, 40x136x146 feet (slow burning), reinforced concrete work, slag roof, steam heating, electric lighting, electric elevators, fire escapes, galvanized iron work, skylights, ventilators, fire door. Plans in progress.

Garage, Linden avenue and Whitelock st., Baltimore, \$10,000. Architect, private plans. Owner, Moses Solmson, care of M. Solmson Fly Screen Co., Bayard and Nanticoke sts., Baltimore. Brick, 1 story, 54x108 feet, slag roof, electric lighting. Plans in progress.

School Buildings, Bellona and Gittings avenue, Baltimore, Md. Architects, Thomas Bond Owings, 347 North Charles street, and Thos. H. Machen, Fidelity Building (associated).

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Cons. engineer, Chas. L. Reeder, Saratoga street and Park avenue, Baltimore. Owners, University School for Boys, on premises. Brick, steel and concrete, 3 stories, 42x130 feet and 40x80 feet, slate roof, steam heating, electric lighting. Owners ready for bids.

Residence and Garage, Guilford, Md., \$25,000. Architect, Wm. D. Landin, 2132 Bolton street, Baltimore, Md. Owner, J. Carroll Fahy, Chamber of Commerce Building, Baltimore. Stone and stucco, 2½ stories, slate roof, hot water heating, tile work, modern plumbing, hardwood floors. Cogswell-Koether Co., 406 Park avenue, Baltimore, are taking sub-bids on all lines.

Residence and Garage, Green Spring Valley, Baltimore, Md. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owner, A. Stanley Zell, 11 East Mt. Royal avenue, Baltimore. Stone, stucco and brick 2½ stories, 35x90 feet; garage, concrete and timber and stucco, slate and shingle roof (heating not decided), electric lighting, tile work, hardwood floors, vacuum cleaning system, plastering, painting, plumbing, ornamental iron work. Architect ready for bids.

Garage, Frederick and Loudon avenues, Baltimore, Md. Architect, Otto Kubitz, 807 Gorsuch avenue, Baltimore. Owners, Jarboe Bros., on premises. Concrete and steel, 2 stories, 32x45 feet, slag roof, hot water heating, steel sash, terra cotta partitions, painting, plumbing. Architect taking bids. The Consolidated Eng. Co., Calvert Building, Baltimore, is figuring.

Garage, 135 West Mt. Royal avenue, Baltimore, Md. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owners, The Tire Co. of Baltimore, on premises. Brick, 1 story, slag roof, steam heating, electric lighting, galvanized iron work, skylights, cement floors, painting and plumbing. Architect taking bids, due February 8th. The following are figuring: Henry S. Rippel, 7 Clay street; C. H. Horn, 1031 Myrtle avenue; John Busick, 2811 Rayner avenue; Herbert & Prodoehl, Munsey Building, Baltimore, Md.

Maryland Contracts Awarded

Store (alts.), 909 North Charles street, Baltimore, Md. Architect, Laurence Hall Fowler, 347 North Charles street, Baltimore, Md. Owner, G. F. Bucholz, 321 West Monument street, Baltimore. Brick work, consists of new front and gallery, sheet metal work, electric wiring, painting, plate glass. Contract awarded to John J. Moylan, 117 East Center street, Baltimore.

Miscellaneous Construction News

Office Building, Eleventh and Poplar sts., Wilmington, Del. Architects, Brown & White-side, Dupont Building, Wilmington, Del. Owners, New Castle Leather Co., Wilmington, Del. Brick and concrete, terra cotta trim, 3 stories, 30x68 feet, tile and slag roof, reinforced concrete floors, hollow tile, fire doors, tile and marble work, skylights, terrazzo work (heating, plumbing, electric work, sprinklers, hardwood floors, elevator, paving, office partitions reserved). Architects taking bids, due February 16th at noon. E. R. Hall & Bro., 34 South Seventeenth street, Philadelphia, are figuring.

Residence (alt. and add.), Eleventh and Madison streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Dr. Willard Springer, 810 Washington street, Wilmington. Brick or hollow tile, 3 stories, 25x75 feet, slag or slate roof, steam heating, electric lighting, metal lath, tile and marble work, hardwood floors, hollow tile. Revised plans in progress. Architect will be ready for bids in about ten days.

Permits for New Buildings

Boiler and Engine House, Salmon street, south of Ontario avenue. Quaker City Machine Works (O and C), Tioga and Edgemont streets. Brick, 1 story, 38x61 feet.

Garage, Pratt and Almond streets, \$1,200. Geo. A. Sinn (O and C), on premises. Brick, 1 story, 30x46 feet, slag roof.

Garage, 502-04 Ruscomb street, \$1,500. Francis J. Blatz (O and C), 5007 North Fifth street. Brick, 1 story, 16x60 feet, slag roof.

Garage, 605 West Phil-Elena street, \$1,100. Mrs. Chas. Mills (O), on premises. Warley & Coddling (C), 3909 Spruce street. Stone, 2 stories, 23x19 feet.

Dwellings (18), east side of Palethorp street north of Tioga, \$34,200. W. A. Lechler (O and C), 3705 Germantown avenue. Brick, 2 stories, 14x24 feet, slag roof, hot air heating.

Dwellings (2), Eastwick avenue, east of Eighty-seventh street. Chas. Basch (O), 3203 South Eighty-seventh street. A. M. Nally (C), Eighty-first and Suffolk avenue. Brick, 2 stories, 16x43 feet, slag roof, hot water heating.

Garage, Oakley street, north of Princeton avenue, \$320. Wm. Crossland (O), on premises. Michael Stevens (C), 910 Fanshaw st. Brick, 1 story, 22x15 feet, slag roof.

Building, Westmoreland, east of Frankford avenue, \$3,000. C. H. Mashland & Sons (O), on premises. Wm. Steele & Sons Co (C), 1600 Arch street. Brick, 1 story, 46x30 feet.

Garage, 1620 Fillmore street (rear). John McKean (O), Frankford avenue and Foulkrod street. Rush Bros (C), 1100 Fillmore street. Brick, 1 story, 17x20 feet, slag roof.

Warehouse, Warren street, at Thirty-eighth street, \$11,250. Fred E. Aaron (O), Thirty-eighth and Powelton avenue. Stacy Reeves & Sons (C), 2011 Market street. Brick, 5 stories, 34x60 feet.

Garage, 28 East Willow Grove avenue, \$500. Job Wolverton (O), 28 East Willow Grove avenue. Wolverton & Collins (C), 28 East Willow Grove avenue. Brick, 2 stories, 16x22 feet.

Dwellings (2), 8121-23 Germantown avenue, \$9,800. Samuel Paul (O), Chestnut Hill. Wolverton & Collins (C), Chestnut Hill. Brick, 2 stories, 14x47 feet, slag roof, hot water heating.

Storage Building, 6114-16-18 Vine street, \$3,000. M. L. Middleberg (O and C), 101 N. Sixtieth street. Brick, 2 stories, 60x60 feet, rubberoid roof.

Garages, Levering and Wilde street, \$2,000. Fred Pearson Co. (O), on premises. W. E. Dyer (C), 1518 Land Title Building. Brick, 2 stories, 22x22 feet, slag roof, skylights.

Building, Rhawn street, west of P. R. R., \$9,000. American Manganese Bronze Co. (O and C), Holmesburg Junction. Iron, 1 story, 51x60 feet.

Dwellings (24), Harrison street, \$84,000. Charles Evans (O), Fourth and Market sts. Edwin Dreby (C), 38 Walnut street, Haddon-

field, N. J. Brick, 2 stories, 16x28 feet, slag roof, hot water heating.

Dwelling, 3946 Reese street, \$1,600. John Brennan (O and C), 3934 Fairhill street. Brick, 2 stories, 14x27 feet, slag roof, hot air heating.

Garage, Clifford street and Montgomery avenue, \$4,000. Wm. M. Lloyd & Co. (O), Twenty-ninth and Ridge avenue. E. E. Hollenback (C), 1804 Brandywine street. Brick, 1 story, 27x70 feet, plank roof.

Dwellings (51), Mayland street, west of Bellfield avenue, \$102,00. Jas. W. Kissick (O and C), Baxter Building. Brick, 2 stories, 16x30 feet, slag roof, steam heating.

Garage, 6832 Musgrave street, \$720. Benj. Kennard (O), on premises. W. D. Schock (C), 142 Allen Lane. Brick, 1 story, 40x16 feet, slag roof.

Shop, 240 Cherry street, \$1,550. George A. Gumford (O), on premises. Frank G. English (C), 1608 North Carlisle street. One-story addition, steel and brick, 15x33 feet.

Manufacturing Building, Nineteenth and Allegheny avenue, \$50,000. Electric Storage Battery Co. (O), on premises. Wm. Steele & Sons Co. (C), 1600 Arch street. Brick, 8 stories, 163x163 feet, slag roof.

Garage, Foulkrod, east of Duffield street, \$1,000. Wm. Stewart (O), on premises. Rush Bros. (C), 1100 Fillmore street. Brick, 1 story, 17x40 feet, slag roof.

Garage, west side of Fifty-fifth street, north of Arch street, \$9,000. John M. Kennedy (O and C), 1001 Chestnut street. Brick, 2 stories, 58x58 feet, slag roof, steam heating.

Garage, 137 West Pleasant avenue, \$600. Gavin Neilson Estate (O), on premises. L. D. Stites (C), 126 Herman street. Brick, 1 story, 16x20 feet, slag roof.

Alterations and Additions

Store and Dwelling, 732 North Second st., \$600. G. Levi (O), 710 North Tenth street. Charles Glashofer (C), 1119 Germantown avenue. Repair fire damage.

Store Building, 1431 Sich street, \$300. Mary Hain Estate (O), 147 Pelham road. John Burt (C), 1431 Sich street. One-story addition, brick, 12x12 feet.

Saloon, Delaware avenue and Chestnut st., \$2,486. H. I. Lowenstein (O), on premises. John Schuster (C), 3552 North Fifteenth st. New flush bulks, repairs.

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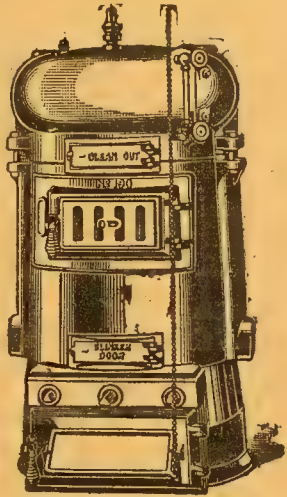
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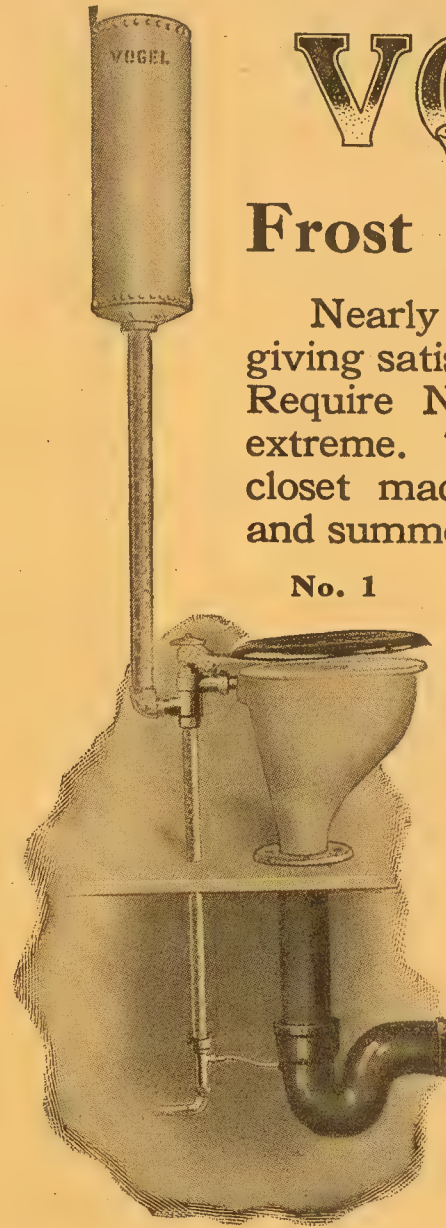
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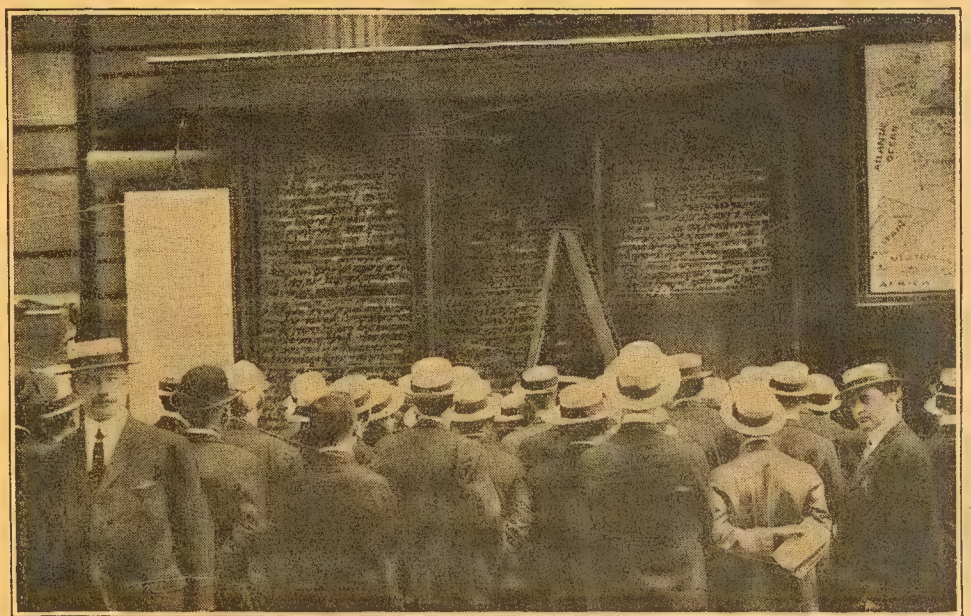
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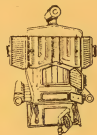
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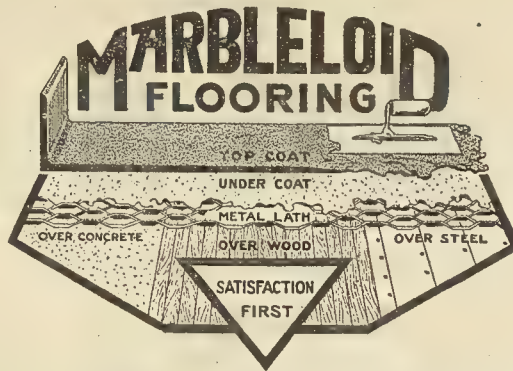


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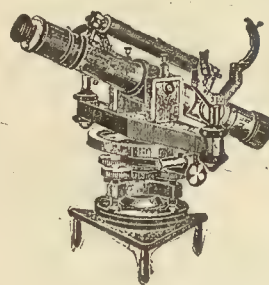


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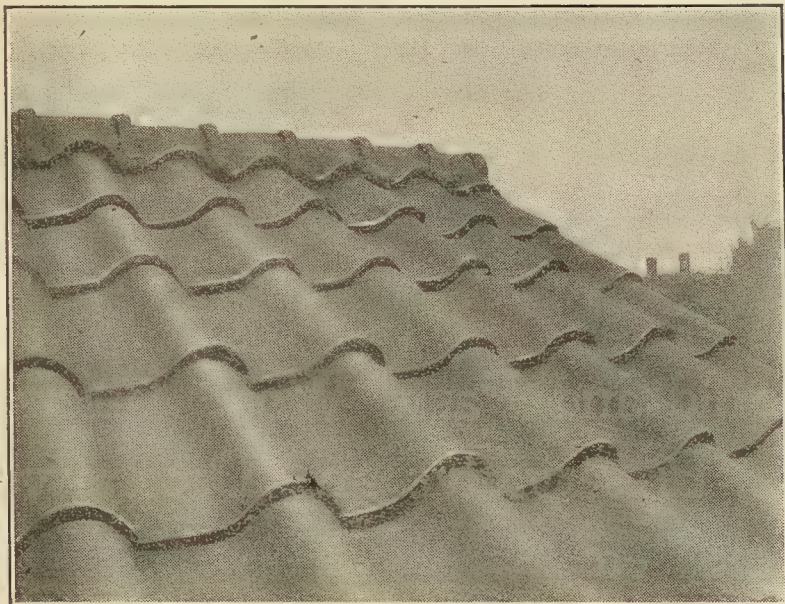
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 7

PHILADELPHIA
February 14, 1917



As The Editor Sees It



MANY things notable in the world of man have come to us out of the pressure of circumstance. New York built the first skyscrapers because the cost of the land was so great that only by building high into the air could the owner figure a return on his investment. The skyscraper jumped into vogue and to-day is regarded by foreign authorities as the most distinctive type in American architecture. The skyscraper was made virtually possible by the passenger elevator. Without a quick, safe, and convenient means of transporting visitors to the upper floors the skyscraper could never have realized its present popularity. So that we owe the skyscraper, rated the most individual of our architectural achievement, to two factors, the perfection of the elevator system and the high cost of New York realty.

* * *

Another tremendous step forward, architecturally, is likely to grow out of the limitation placed on the height to which buildings of the skyscraper type may be carried, under New York City's new zoning regulations.

Under these regulations the height of a building is limited by the width of the street on which it is to front.

In other words, if a street is 60 feet wide one and one-half times the width of that street or ninety feet is the height limitation of the front wall. But by carrying the next wall back from the house line in the ratio of one foot horizontally to three vertically one may rise to the loftiest altitudes. The primary object of these "set-backs" was to insure a reasonable amount of light and ventilation to surrounding properties.

Incidentally, quite incidentally, they are destined to lend a new architectural grace, dignity and impressiveness, to the

tall buildings of the future. Mr. Francis P. Schiavone, a distinguished New York architect, touches upon this phase of the new height limitations in a recent article on the subject in *The Real Estate Record*.

* * *

WRITES Mr. Schiavone:

"A coming feature of New York's architecture which will be stressed more and more in future years is the set-back or break in the elevation. It is bound to work a revolution in the appearance of the new tall buildings and to give architects new opportunities. In hotels this set-back will become a roof-garden, an open air dining room in summer, a solarium in winter. In apartment houses, where it will be less used, it will become a balcony and a play space for children. In addition it will serve a most valuable structural end as a place where a necessary pipe gallery may be hidden without adding to the height of the building. This gallery may be made easily accessible through doors in the walls of the story at the same level.

It is not predicting the impossible to say that the wonderful effects to be obtained by flood-lighting and the opportunities provided by these set-backs for the efficient location of the lighting units will result in the design of the details of the facade to cast effective shades and shadows from these new sources of light, new rivals of the sun. All our architectural detail is designed for a high light-source, the sun and sky, but with night life in New York so important, the lower light-source will well repay recognition.

The future holds many opportunities for the designer who will grasp the possibilities of the new architecture. While it is yet new it presents difficulties due

to the unfamiliarity of the architect with its limitations and its latitude. But it will not be long before Manhattan, now famous for its tall buildings, will be noted for the beauty, novelty and diversity of design of its new skyscrapers." Due entirely, it may be remarked, to pressure of circumstance in the shape of the new zoning regulations.

* * *

THAT brilliant and well-informed writer on architectural subjects, Mr. C. Matlack Price, has an article in the current number of *Arts and Decoration*, on "Possibilities in Picture Building—An Unexplored By-Path in Architectural Thinking." In this very readable consideration of architecture, as a means to the attainment of the picturesque, Mr. Price goes, at some length, into the question of how far it may be permissible for the designer to consider his project simply as one unit in a finished picture. But suppose we let Mr. Price state the proposition in his own way.

* * *

TO say, or think that an architect may build a picture just as an artist paints a picture, or a writer composes a poem, should not, by rights, come to us as a strange, weird or far-fetched idea," says Mr. Price. "No one will deny that painting, writing, architecture and all other creative impulses, have all their essentials in common. Their aim is to produce something which is beautiful, or expressive or interpretative (or all three), and the media by which each art seeks to attain the great common end will be found to be surprisingly similar—identical in intent, while differing in actual material form.

Let us confine the analogy to three kinds of artistic expression: painting, writing and architecture—and we will

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see at once that any great work in any one of these directions will have been inspired by genius, compassed by vision, enlightened by imagination and thinking, and accented by virtue of mastery of media, whether pigments, words or bricks. This mastery of media is familiar to the tongues of art critics (meaning painting-critics) in the term 'technique.' In the field of writing it is usually called 'style' (a comparatively meaningless term)—and in the field of architecture it is not thought of by any name because it is not thought of at all. It is an unfortunate fact that no one but an intelligently discriminating architectural critic (if such exists) allows his vision to comprehend the different kinds of technique which might have been applied to a given building as an aid to determining its actually existing merit or failure.

* * *

IT has become a habit to confine critical thought in architecture to the concrete which is so great a mistake that it might almost be called a calamity. One reads critical praise of a country-house designed in the Tudor style, for instance, but the criticism has no more value or accuracy than a distant view from a speeding motor car. At best it may discuss the merit by the technique with which the style was rendered, overlooking the important fact that the house in question should not have been designed in that style; that the architectural error was not one of technique, but of failure to grasp the basic architectural idea which should have been expressed.

"The architect is (or should be) doing more than issuing instructions for a crew of laborers to pile up some building materials and do a bit of carpenter work. He should be building a picture as essentially a work of art as the painter's canvas, and though he has not the painter's advantage of doing the thing with his own hands, its undertaking should not be approached differently.

"The architect's picture, it is true, is a far more different thing than the painter's, as well as an easier thing. The painter must simulate reality, or an expression of it through dexterity in overcoming the limitations of two dimensions, on his flat canvas. Where perspective and distance and texture and color must be contrived by skillful artifice.

"When he has laid down his brushes, however, the thing is complete and by the success or unfitness of its contrivance, it is an accredited work of art or a failure. And it can be seen only from one viewpoint. The architect proud of his own field of art must feel a sincere appreciation for a good painting, which

is the work of his brother in another field."

* * *

THERE are, on the whole, more architects who intelligently appreciate painting than painters who intelligently appreciate architecture. The painter may admire a finished building, and even find it worthy, of transference to canvas, but his admiration, he must admit, is rather a superficial thing. After all, it is only a picture, and it is safe to say that he does not stop to think of the ability and imagination and ingenuity and artistic inspiration which were demanded of the architect in the *building* of that picture.

"Unlike the painter, the architect was working with real perspective, real distance, real textures and colors. He could not devise a building which was pleasing, or a 'good picture' from but one point of view. Neither could he guarantee for his client a certain color for the sky, harmonizing with the walls and roof, and the same throughout the year. His materials were actualities, and his task one of expressing something near an ideal with these as material media. Actualities have their advantages, perhaps evenly balanced, as is true of the pigments, the fictitious media with which the painter paints his picture."

* * *

THE painter strives to paint facts with a palette of 'such stuff as dreams are made of,' while the architect strives to paint the dream with a palette of hard facts, such as stones, bricks and slate. Yet both are striving to do the same thing—to create a work of art.

"Because architecture has not generally been accepted as a fine art in recent years, especially in this country, there are few buildings which can honestly be considered as works of art, and the architectural observer is therefore keenly stimulated when he discovers the beautiful exception in which the architect has 'built a picture.'

"Nor are practical considerations to be overlooked—for the architect they are ever present, while the painter's canvas may hang in any direction to the compass and the writer's book will read as well in any environment."

* * *

THE illustrations employed by Mr. Price to lend point to his thoughtful and suggestive paper are from photographs of a house on the New England coast, to which the designer has imparted the pictorial quality in a degree almost uncanny in the effect of its loveliness.

"Here, certainly," he concludes, "is one of those rare examples of architecture which so far transcends mere building as to occupy a place on a high level of real artistic achievement, and to prove beyond reasonable question that a comprehensive vision of art abounds in striking analogies, one of which is 'building a picture.'"

* * *

THAT architecture is, in fact, a fine art, many come to be recognized by general observers when recognition is accorded to the many analogies which exist between it and other forms of expression more commonly regarded as 'artistic.'

Design, composition, color technique—all the component parts of art which are united to express a beautiful idea or a beautiful necessity, are conjoined in the practice of architecture and to them are added practical consideration from which painters, writers or musicians are free. The architect must retain his artistic vision through a prolonged preoccupation with business dealings and technicalities of plumbing, heating and general construction—must be a human paradox, making beautiful pictures with one hand, and making accurate mathematical calculations with the other. And because a human paradox is a genius, and the species is rare, the ideal architect is rare."

EDITORIAL NOTES

The Pennsylvania and Atlantic Seaboard Hardware Association and the New York State Retail Hardware Association are holding their joint annual convention and exhibition in New York City. The headquarters are in the Hotel Astor and the exhibition in the auditorium of Madison Square Garden. W. P. Lewis, Huntingdon, Pa., is secretary-treasurer of Pennsylvania and At-

lantic Seaboard Hardware Association, and John B. Foley, Kirk Building, Syracuse, N. Y., secretary of New York State Retail Hardware Association.

* * *

On Sunday, February 4th, the Annual Exhibition of the Architectural League of New York was opened to the public. The exhibition continues until Saturday, February 24th, and will be open

daily from 10 A. M. until 6 P. M. and from 8 P. M. until 10.30 P. M.; Sundays from 12 to 6 P. M. The exhibition is free on Saturdays, a charge of \$.25 is made on other days. The annual dinner of the League was held on February 2nd and the League reception on Saturday, February 3rd.

* * *

Daniel Guggenheim is reported to be negotiating for the purchase of the splendid estate of Howard Gould at Sands Point, one of the show places on the north shore of Long Island, known as "Castle Gould." Mr. Guggenheim's brothers, William and Isaac, own fine estates adjoining the property. Castle Gould was projected about sixteen years ago and was modeled after Kilkenney Castle in Ireland. The main building is a massive stone structure, more than 60 feet high, on ground above the Sound. Fine serpentine roads were laid out in the estate, which contains more than 200 acres. The castle is about 228 feet long by 110 feet in depth, and is surmounted by a tower and turret, which make it conspicuous from the water. On the second story is a sunroom composed almost entirely of glass. The dining room is of grayish brown oak and the library copied after the famous Bromley room, now shown in the South Kensington Museum. In 1908 the casino, near the waterfront, was constructed, containing bowling allies, a swimming pool and many guest rooms. More than \$1,000,000 was spent on the place.

* * *

The plans for the sixth annual meeting and convention of the National Association of Builders' Exchanges of the United States of America, which will be held in Atlanta, Ga., February 13-15, are now complete and according to the program every session will contain much of interest to the building trade throughout the country. Further details of the convention will be announced in a later issue.

* * *

According to figures tabulated by the United States Geological Survey, 1916, was an exceptional year for the lime industry of this country. The estimate is made that the lime produced and sold in the United States, including Porto Rico and Hawaii, in 1916, indicates a total market production of 4,150,000 short tons of this commodity, a gain of nearly 15 per cent. over the total for 1915, which was 3,622,810 short tons. The past year was the first in the history of the lime industry in which the production has equalled or exceeded 4,000,000 tons. Lime is produced in forty-three States and in thirty-one increases in production

were reported. The remaining States represented less than 6 per cent. of the total production of the country. Hydrated lime showed a gain of more than 13 per cent. over the year previous, the total tonnage marketed reaching 710,000 tons. Lime prices were generally higher in 1916 than in 1915, although in some places the increase was not important until toward the end of the year.

* * *

The structural steel industry has begun to feel the effects of the resumption of building activities throughout the country. During the past week there were contracts placed for fabricated steel for some important building operations and the inquiries denote that there are a large number of structural projects that are almost ready to be placed under contract. Among the more important bookings of the week are included: Milliken Brothers, 500 tons for the William Beckers Aniline Chemical Works, for the addition to the plant in Brooklyn; 10,000 tons for the Eaton warehouse, Toronto, Can., to be erected by the Dominion Bridge Works, from steel to be fabricated in this country; 700 tons for the Keith Theatre in Syracuse, to Harris, Silvers, Baker Co., and 250 tons to the American Bridge Co. for bridge work for the Pennsylvania Railroad Company. The new projects that are now being figured include operations of prime importance and the tonnage requirements will reach a large total. There is no question but that if the prices of building materials and supplies will come back to a normal level a very large number of structural projects would be placed under contract immediately, but it seems now as though owners are holding off in vain, as there is no prospect of a recession in sight.

* * *

The Australian Government announces the resumption of the architectural competition to select the architect for the Parliament House in the new capital city of Canberra. This competition was opened in June, 1914, and suspended in September, 1914, owing to the war. It is now reopened on the original conditions to all friendly countries (enemy subjects not being eligible), the date for receiving drawings being extended to April 30, 1917, at London and Melbourne.

Programmes can be obtained by application to the High Commissioner for Australia, 72 Victoria street, Westminster, London, or to the Works' Departments respectively of the British Dominions, or to the British Embassies at Madrid, Paris, Rome, Petrograd, Stockholm and Washington.

Outline sketch designs only are required. Eight prizes, aggregating £6,000 are offered, the first being £2,000. An international jury of the following architects are asked to make the awards: George T. Poole, of Australia; Sir John J. Burnet, of Great Britain; Victor Laloux, of France; Louis H. Sullivan, of the United States of America, and Eliel Saarinen, of Russia.

W. B. GRIFFIN,

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* * *

Philadelphia architects and builders, as well as residents who contemplate building new homes, are greatly interested in the coming National Building Exposition to be held in New York March 5 to 11, and it is likely that visitors from Philadelphia will be many in that week. Architects are especially interested in the architectural competition for a large cash prize for the best design of a house to cost a given sum.

* * *

Woolworth, "the five-and-ten man," leased a store site on Fifth avenue last week for a term of forty-two years at a rental aggregating \$4,500,000. The plot is only 27.6 x 92.7 feet. A six-story building is to be erected on the site. It is interesting to note in this connection that the Woolworth Company had in 1916 the biggest in its series of its prosperous years, the gross sales having been reported to total more than \$87,000,000.

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Irving Dillon.....Editor

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Store (alt. int.), 206-8 Market street, Philadelphia, \$3,000. Architect, private plans. Owners, L. K. Liggett Co., on premises. Removing party wall, steam heating, electric lighting, cement and tile floors (electric fixtures reserved). Owners have received bids.

Passenger Station (add.), North Philadelphia, Broad and Glenwood avenue, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick and terra cotta, 1 story, 2 wings, 20x50 feet and 18x30 feet, slag roof, steam heating, electric lighting, metal lath, rolled steel sash, marble work, terrazzo and composition floors. Owners taking bids, due February 20th. The following are figuring: John V. Speth & Co., 1714 Sansom street; H. H. Wehmeyer, 1004 W. Lehigh avenue; F. A. Havens & Co., 845 N. Nineteenth street; John R. Wiggins & Co., Otis Building; Roydhouse-Arey Co., 112 N. Broad street; Jacob Myers & Sons Co.; Wither- spoon Building; Harry Gill, Jr., 2515 Germantown avenue; Fred Elvidge & Sons, 5522 Germantown avenue; Mitchell Bros., 2125 Race street, and Chas. McCaul Co., 1713 Sansom street.

Stores (3) and Apartments (2) (alt. and add.), northeast corner Sixteenth and Columbia avenue, Philadelphia. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, Max Roetenberg, 1419 Ridge avenue, Philadelphia. Brick, 3 stories, slag roof, steam heating, electric lighting, pine floors, new bulks, tile and marble work. Plans nearly completed. Architect and owner will take bids in a few days.

Residence (alt. and add.), Prospect avenue and New street, Chestnut Hill. Architects, Bissell & Sinkler, 1218 Chestnut street, Philadelphia. Owner, Dr. Wm. H. Jeffreys, 100 W. Walnut lane, Germantown. Brick and plaster, 2½ stories, 40x35 feet, tin roof, plumbing, metal lath, tile work, pine and cement floors, (hot air heating and electric work reserved). Architects taking bids, due February 17th. The following are figuring: J. P. Thompson, Real Estate Trust Building; H. H. Burrell, 206 S. Quince street; Stokes Bros., 6723 Musgrave street; James H. Wells, Heed Building; Wm. H. Carr, 5911 Germantown avenue; and Pringle Borthwick, 8018 Germantown avenue, Philadelphia.

Ash Hopper, Wheatsheaf lane and Gaul st., Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, F. W. Tunnell & Co., Inc., 15 North Fifth street, Philadelphia. Reinforced concrete and steel, 43 feet high, 17x15 feet, rubberoid roof. Architects have received bids.

Store and Dwelling (alt.), 700 South street, Philadelphia. Architect, Chas. E. Rahn, 410 Walnut street, Philadelphia. Owner, Jos. Elfman, care architect. Brick, 3 stories, slag roof, hot water heating, electric lighting, pine floors. Architect taking bids, due February 10th. Lam Building Co., 1001 Wood street, are figuring.

Residences (15), east side of Sixth, north of Chew street, Olney, Philadelphia. Architects, Neubauer & Boyd, 1113 Chestnut street, Philadelphia. Owner, R. Wallace Troemner, Tenth and Northeast Boulevard, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, hot water heating, combination lighting, metal

skylights, hardwood floors, tile work. Plans completed. Owner will take sub-bids in a few days.

Store and Dwelling (alt. and add.), and Garage, southwest corner Ninth and South streets. Architect, Julius J. Anderson, 736 Drexel Building, Philadelphia. Owner, Henry Jacoby, on premises. Brick, 3 stories, garage, 1 story, 23x19 feet, slag roof, pine and parquetry floors, cement and mineral floors, combination lighting, metal lath, tile and marble work, metal window guards. Revised plans in progress.

Residences (89), Eleventh and Wyoming avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, A. Sonnenfeld, 287 South Sixty-third street, Philadelphia. Brick and stone, 2 stories, 16x58 feet, 16x42 feet, 15x38 feet, 16x32 feet, and (25) garages, 1 story, slag, slate and asphalt shingle roofs, hot water heating, hardwood floors, tile work, electric lighting, cement work. Plans completed. Owner taking sub-bids, due February 26th. Plans may be seen at architect's and owner's offices February 12th.

Residences (8), Fifty-eighth and Yocum sts., Philadelphia. Architect, B. J. Medoff, 524 Walnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, slag roof, 16x38 feet, hot water heating, electric lighting, tile work, hardwood floors. Plans about completed. Will take sub-bids in two weeks.

Garage, Fifty-eighth and Yocum streets, Philadelphia. Architect, B. J. Medoff, 524 Walnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 50x85 feet, slag roof, steam heating, electric lighting, metal skylight, elevator, rolling steel doors, cement work. Plans about completed. Will take bids in about two weeks.

Department Store, 4304-06 Germantown avenue, Philadelphia. Architect, B. J. Medoff, 524 Walnut street, Philadelphia. Owner, Isaac Spritzler, on premises. Brick, 3 stories, 36x80 feet, consists of general interior and exterior alterations, new brick front, metal bulks (alterations to lighting, heating and plumbing systems). Plans completed. Owner will be ready for bids in a few days.

Service Building (alt. and add.), 660-2 N. Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Samuel Gorson, 238 North Broad st., Philadelphia. Brick, 2 stories, slag roof, steam heating, electric lighting, metal lath, fire doors, reinforced concrete floors, store fixtures. Architect taking bids, due February 12th. Abel Bottoms & Sons, 3611 Walnut st.; E. E. Hollenback, Inc., 1804 Brandywine st.; Freund Const. Co., Bulletin Building; B. Bornstein, 1510 N. Franklin street; Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street, and Wm. R. Dougherty, 1610 Samson street, are figuring.

Garage, Eighteenth and Ridge avenue, Philadelphia. Architect, Geo. S. Idell, 34 S. Sixteenth street, Philadelphia. Owners, Ridge Avenue Farmers' Market, on remises. Brick and steel, 2 stories, 60x170 feet, slag roof, steam heating, electric lighting, cement and pine floors (gasoline storage system reserved). Plans in progress. Architect ready for bids in ten days.

Coal Bin and Concrete Foundation for Dust

Separator, Park avenue and Clearfield street, Philadelphia. Architect, private plans. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Lessees, Keystone Elevator & Warehouse Co., on premises. Concrete and steel. Owners taking bids, due February 12th. The following are figuring: Lincoln H. Smith, Hale Building; A. L. Carhart, Hale Building; Armstrong & Latta, Land Title Building; Brann & Stuart, Commercial Trust Building; Loos & Dothard, Commercial Trust Building; Monaghan & Losse, 3016 Chestnut street; John V. Speth, 1714 Sansom street; Bailey-Lush Co., 201 N. Broad street; John N. Gill & Co., Otis Building; Crossman Const. Co., Land Title Building; E. E. Hollenback, 1804 Brandywine street; Pomeroy Const. Co., 1609 Ranstead street; Manwaring & Cummins, 5622 Germantown avenue; Guy Croyle, Merion, Pa.

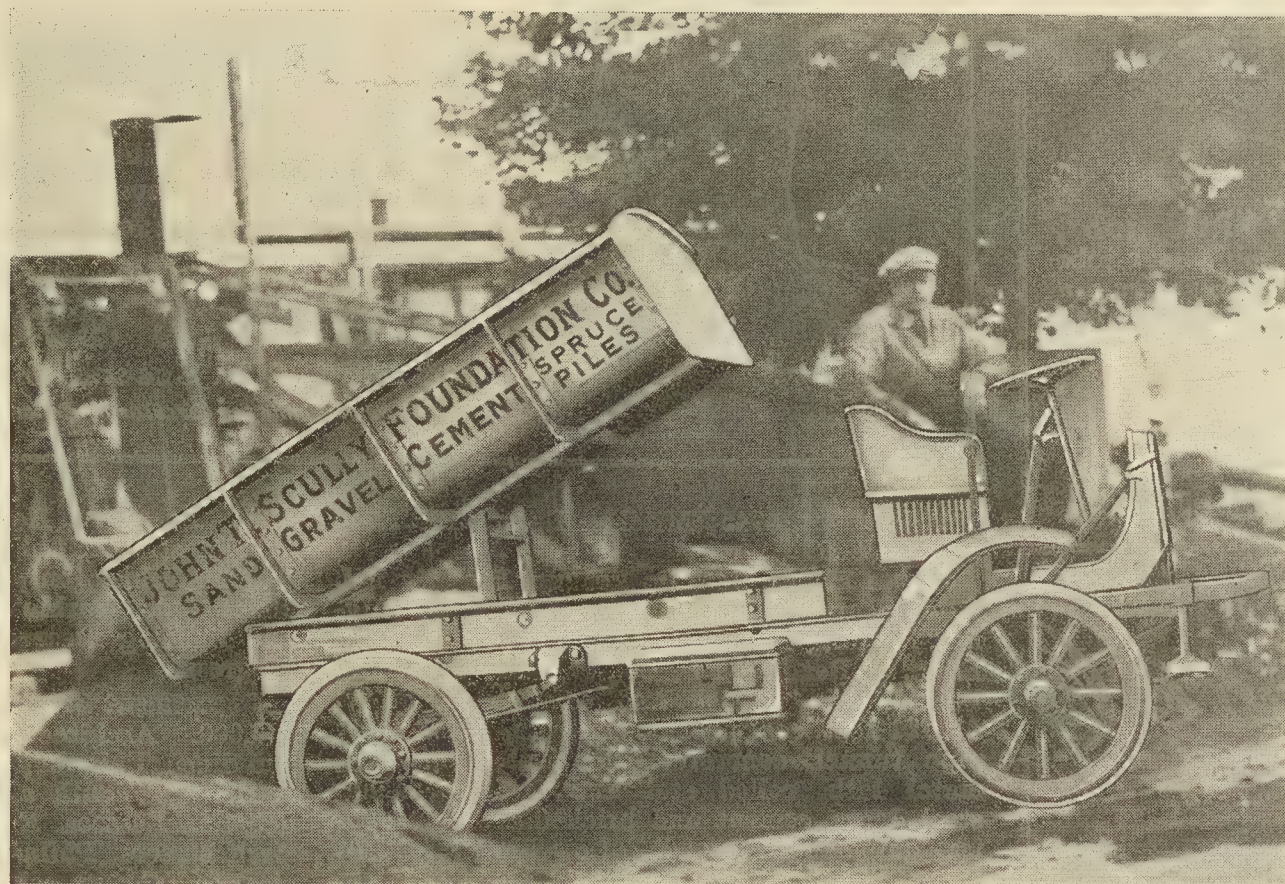
Rooming House (int. alt.), 1221 Walnut st., Philadelphia. Architects, Sheen & Gill, Heed Building, Philadelphia. Owners, Yorke Hotel, care of Robert Bryson, Bryson Hotel, Twelfth and Market streets. Brick and stone, 4 stories, tin roof, pine floors, plastering, mill-work (steam heating, electric lighting, plumbing and decorating reserved). Owner and architects taking sub-bids.

Parish House, Cheltenham and Germantown avenues. Architects, Day & Klauder, 923 Chestnut street, Philadelphia. Owners, First Presbyterian Church of Germantown, care of Rev. W. Beatty Jennings, 6012 Greene street, Germantown. Stone, 2 stories, slate roof. Sketches completed. Plans in progress.

Church, Twenty-seventh and Indiana avenue, Philadelphia. Architect, W. W. Sharley, Brown Bros. Building, Philadelphia. Owners, Diamond Street Baptist Church, Rev. Geo. E. Rees, 2227 Venango street, Philadelphia. Stone or hollow tile and laster, 1 story and basement, 50x35 feet, tile or slate roof, composition and pine floors, electric lighting, fire doors, cabinet work (heating, decorations and furniture, cement paving and lighting fixtures reversed). Revised plans in progress. Will take bids in a week.

Subway Stations (5), Arch street, Locust street, and Eighth street. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of Wm. S. Twining, director, Bourse Building, Philadelphia. Excavating, heavy construction underpinning, reinforced concrete, waterproofing, dampproofing, skylights, safety treads, iron stairs. Lowest bidders: Keystone State Const. Co., Pennsylvania Building, on Arch st., \$1,575,000; on Locust street, \$1,713,000; Smith, Hauser & MacIsaac, 18 E. Forty-first street, New York City, on Eighth street station, \$2,420,000.

Market Houses (2), (alts.), Second street, Pine to Lombard streets, and Lombard to South streets. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Bureau of City Property, Dept. of Public Works, room 113, City Hall. Brick and mill work (plumbing separate bid), plank floors, steel and timber, tin roof, cement floors, ventilators, skylights, metal window guards. Lowest bidders on Lombard to South streets, E. C. Durrell, 1713 North Twenty-fourth st., \$19,876; Standard Const. Co., 1713 Sansom st., \$19,960. Lowest bidders on Pine to Lombard streets, E. C. Durrell, 1713 North Twenty-



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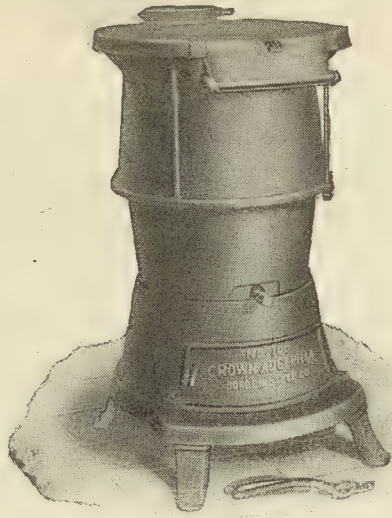
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fourth street, \$745; Mitchell Bros., 2125 Race street, \$860.

Power House, Coal Pocket and Pipe Tunnel, Erie avenue yard. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Brick and concrete, 1 story, 41x121 feet, coal pocket, concrete, 18x53 feet; pipe tunnel, concrete, 6x86 feet, slag roof, metal lath, rolled steel sash, waterproofing, steel doors, cement and brick floors (mechanical equipment reserved). Low bidders: F. A. Havens, 845 North Nineteenth street, item No. 1, \$38,403; No. 2, \$2,645; A. L. Carhart, Hale Building, item No. 1, \$39,400; No. 2, \$2,650.

Warehouse, Swanson and Dickinson streets, Philadelphia. Architect, William Copeland Furber, 418 Walnut street, Philadelphia. Owners, E. F. Drew & Co., Inc., Swanson, below McKean street. Brick and concrete, 1 story, 50x100 feet, slag roof, concrete and plank floors. Architect taking bids from Sutton & Stephenson, 1317 Washington avenue, Philadelphia.

Garage, Fifty-seventh near Baltimore avenue, Philadelphia. Architect, private plans. Owner, Francis H. Thole, Penn Square Building, Philadelphia. Lessee, Harry P. Reed, 1139 South Fifty-eighth street, Philadelphia. Brick and steel, 1 story, 75x185 feet, slag roof, cement and pine floors (heating reserved), electric lighting. Owner taking bids, due as soon as possible. J. T. Jackson, Perry Building, is figuring.

Garage, Sixteenth and Smedley streets, Philadelphia. Architect, Amos W. Barnes, Hermit and Righter streets, Roxborough. Owner's name withheld. Reinforced concrete and brick, 2 stories, 51x87x202 feet, slag roof, cement floors (plumbing, steam heating, electric work and gasoline storage system reserved). Plans about completed. Architect will take bids in one week.

Department Store (alt.), 1029 Market st., Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, George H. Earle, Jr., Tenth and Market streets, Philadelphia. Lessee, Adolph Berg, 2359 North Park avenue, Philadelphia. Consists of new first floor front, electric lighting, hardwood floors, metal bulks, tile and marble work. Architects taking bids, due February 18th. Sax, Franklin Bank Building; O'Meara Const. Co., 253 South Quince street, and A. P. Fraim, 319 Market street, are figuring.

Residence, 716 Hutchinson street, Philadel-

phia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Lewis & John Zeluca, on premises. Brick, 3 stories, 16x44 feet, marble trim, slag roof (heating and lighting reserved), tile work. Plans in progress.

Department Store (alt.), 1027 Market street, \$50,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, George H. Earle, Jr., Tenth and Market streets, Philadelphia. Lessees, Epstein Bros., Seventh and Arch streets, Philadelphia. Brick, 7 stories, electric lighting, oak and pine floors, millwork, metal bulks, tile and marble work, store fixtures. Architects taking bids, due February 13th. P. M. Sax, Franklin Bank Building, and O'Meara Const. Co., 253 South Quince street, are figuring.

Residence (alt.) and Show Room and Garage, 2126 North Broad street. Architect, Harry Raech, 2719 South Smedley street, Philadelphia. Owner, John C. Kimmerle, Broad and Tasker streets, Philadelphia. Brick, 1 and 4 stories, slag roof. Plans in progress.

Warehouse (remodeling into Stores and Offices), northwest corner of Delaware avenue and South street. Architect, not selected. Owner, Michael Barbrus, 524 South Delaware avenue, Philadelphia. Brick, 3 stories, 27x100 feet. Work contemplated for spring.

Workmen's Cottages and Stable, Chestnut Hill, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, Land Title Building, Philadelphia. Brick, hollow tile and plaster, 1½ stories, 107x30 feet and 20 feet, tin and shingle roof, hot water heating, cement and pine floors, metal lath, dampproofing, tile work (lighting fixtures, weather strips and lighting reserved). Architect taking bids, due February 15th. Stable, 2 stories, 26x23 feet, and 2 wings, 62x14 feet each. Samuel Harting, 20 East Johnson street; Specht & Sperry, Heed Building, and George F. Payne & Co., 401 South Juniper street, Philadelphia, are figuring.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

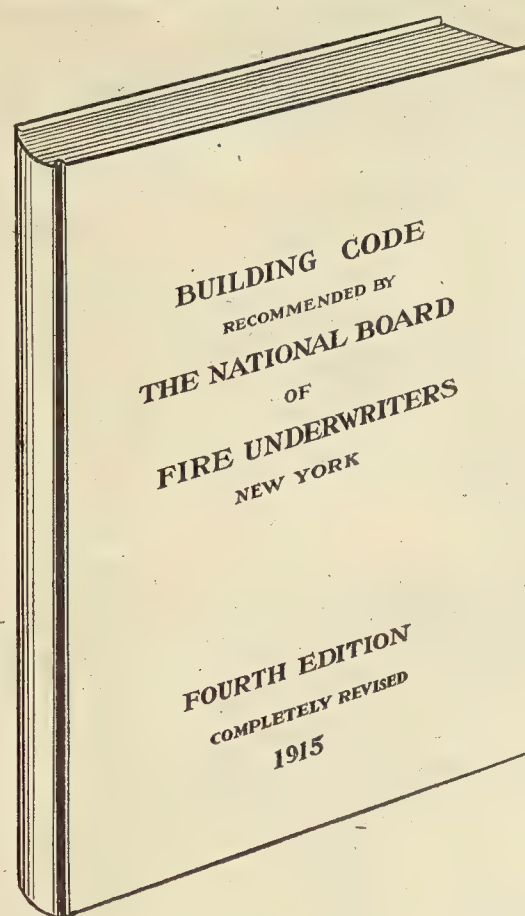
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Dry Rot Facts

From pages 129 and 130 of Building Code recommended by the National Board of Fire Underwriters

Read what Mr. Ira H. Woolson
the Board's Consulting Engineer says about treatment
of sleepers and floors

NOTE 1.—Attention is called to the grave danger of dry rot attacking floor sleepers which are imbedded in concrete and then sealed from the air by the floor covering. Instances of rapid decay and serious damage from this cause are numerous. Well seasoned heartwood timber is best suited for this purpose, and antiseptic treatment is recommended. Coal tar antiseptics are not suitable for this purpose in most buildings. The odor and the oily surfaces are disagreeable, and the danger from fire is increased. Wood treated with zinc chloride or corrosive sublimate is not subject to such criticism.

Note.—Wooden floor surfacing should be made as waterproof as practicable. Water proof paper is sometimes used between the layers of rough and finished flooring, but this increases the danger from dry rot, unless care be exercised to have the sleepers and rough flooring thoroughly dry before sealing it down with the paper. Antiseptic treatment is the most reliable.

SAUMS PRESERVATIVE Prevents DRY ROT

Zinc chloride or corrosive sublimate, while antiseptically killing the germ, are not waterproof, therefore are no protection against checking and warping. Brush treatments of any of the above products are not permanent, as they slowly oxidize and lose their strength.

SAUMS PRESERVATIVE has a penetration of from $\frac{3}{4}$ " to $1\frac{1}{2}$ " in wood and deposits a permanent elastic and cohesive gum to the depth of its penetration. It antiseptically kills the fungi and by being waterproof prevents any germination of the fungi. In addition to other methods of rot prevention SAUMS PRESERVATIVE is permanent, fire retardant, odorless and gives added strength to the structural portion of the wood. We guarantee to prevent and stop wet and dry rot in wood for a period of five years.

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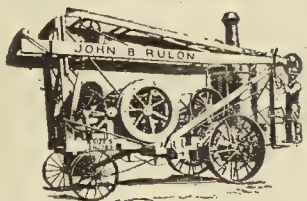
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartment Hotel and Servants' Quarters, Spruce street, east of Sixteenth street, \$2,500,000. Architect, Frederick Webber, Morris Building, Philadelphia. Owner, Abner H. Mershon, Land Title Building, Philadelphia. Brick, steel, stone and terra cotta, 13 stories, 112x235 feet, and 3 and 4 stories, 25x235 feet, slag roof, steam heating, electric lighting, metal lath and sash, waterproofing and dampproofing, fire doors, tile and marble work, oak and pine floors, hollow tile, elevators. Contract awarded to John R. Wiggins & Co., Otis Building, Philadelphia.

Warehouse (alt.), 12 South Sixth street, Philadelphia, \$20,000. Architects, E. F. Durang & Son, 1220 Locust street, Philadelphia. Owners, Megargee-Hare Paper Co., on premises. Brick and steel, 5 stories and basement, pine floors, hollow tile, (1) fire door, metal skylights, tile and marble work (plumbing, heating, electric work and elevator reserved). Contract awarded to Jacob Myers & Sons Co., Witherspoon Building.

Department Store (alt.), Eighth and Market streets, Philadelphia, \$7,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owners, Strawbridge & Clothier, on premises. Consists of new fire tower, brick, reinforced concrete, 5 stories, 10x19 feet, slag roof, metal skylight, metal lath,

fire doors (alterations to heating, lighting and sprinkler systems reserved). Contract awarded to Stacy Reeves & Sons, 2011 Market st.

Residence (alt. and add.), and Garage, 363 E. Gowan avenue, Mt. Airy. Architects, Harris & Richards, Drexel Building, Philadelphia. Owner, Edw. G. Taulane, E. Mt. Airy and Stenton avenues, Germantown. Stone, brick and plaster, 2½ stories, slate roof; garage, 1 story, hollow tile and plaster, 22x22 feet, hardwood and cement floors, tile work (hardwood floors, electric work and heating reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Bakery Building, Fifty-seventh and Race streets, Philadelphia, \$12,000. Architect, private plans. Owners, Quaker City Cracker Co., South Penn Square Building, Philadelphia. Brick (slow burning), 1 story, 60x80 feet, slag roof, cement and pine floors, rolling steel doors (heating and lighting reserved). Contract awarded to Standard Const. Co., 1713 Sansom street.

Napthalene Building, Thirty-sixth and Grays Ferry road, Philadelphia, \$7,500. Architect, private plans. Owners, Barrett Co., 17 Battery Place, New York City. Steel and corrugated iron, 1 story, 18x63 feet and 31x89 feet, plank roof, concrete floors, rolled steel sash. Contract awarded to A. L. Carhart, Hale Building.

PENNSYLVANIA Construction News

Mill No. 6 (alt.), Darby, Pa. Engineers, Willard Case & Co., 17 Battery Place, New York City. Owners, Griswold Worsted Co., Darby, Pa. Brick (toilet enclosures), cement floors, Gypsum blocks. Engineer taking bids, due February 10th. Georg & Borst, 277 S. Eleventh street, are figuring.

Freight House and Office, Roberts avenue and King street, Philadelphia, Pa. Architects, M. of W. Dept., Penna. RR. Co., Philadelphia. Owners, Penna. RR. Co., Broad St. Station, Philadelphia. Brick and steel, 1 story. Plans in progress.

Auditorium Building, Jenkintown, Pa. Architect, private plans. Owner, John Wanamaker, Thirteenth and Chestnut streets, Phila-

delphia. Frame, 1 story, 56x120 feet, rubberoid roof, pine floors, metal skylights. Owner taking bids, due as soon as possible. Specht & Sperry, Heed Building, Philadelphia, are figuring.

Residence (alts.), Valley Forge, Pa. Architect, Harry G. McMurtrie, 1012 Walnut st., Philadelphia. Owner, John R. K. Scott, Morris Building, Philadelphia. Consists of sundry interior and exterior alterations, alteration to lighting system. Architect taking bids, due February 19th. Frank Heavner, Norristown, Pa., and Albert Shoemaker, Jeffersonville, Pa., are figuring.

Residence, Bethayres, Pa. Architect, Harry Parker, 129 S. Fifth street, Philadelphia.

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725-26 Commercial Trust Building, Philadelphia

Owner, Dr. Wm. R. Sutch, 2638 North Fifth street, Philadelphia. Stone and frame, 2½ stories, 30x50 feet. Plans about completed. Architect will take bids in a few days.

Garage, Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone, 1 story, 23x50 feet, slate roof, electric lighting, steam heating, cement work. Plans about completed. Architects will take bids in about one week.

Factory, Bristol, Pa. Engineer, Wager Fisher, Commonwealth Building, Philadelphia. Owners, Rohm & Haas, 40 North Front street, Philadelphia. Brick (slow burning), 2½ stories, 32x52 feet, slate roof, plank and maple floors (plumbing, heating and lighting reserved). Engineer has received bids.

Residence and Garage, Wynnewood, Pa. Architect, Paul M. Hesser. Cons. architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owner, Wm. T. Bryan, 1322 Chestnut street, Philadelphia. Stone, brick and plaster, 2½ stories, 51x31 feet and 11x22 feet, slate and tin roof, hot water heating, electric lighting, metal lath, hardwood floors, tile and marble work. Architect taking bids, due February 17th. The Graham Campion Co., Heed Building; and John T. Wolff, 4327 Pennsgrove street, are figuring, in addition to those previously reported.

Department Store (alt.), Williamsport, Pa., \$5,500. Architect, T. J. Litzelman, 129 West Fourth street, Williamsport, Pa. Owners, Livingstone Department Store Co., Williamsport, Pa. Consists of electric work, new store front, tile and marble work. Architect taking bids. A. C. Everhart, and Krandsall Brothers, of Williamsport, Pa., are figuring.

Theatre Building, Independence and Anthracite streets, Shamokin, Pa., \$50,000. Architect, W. H. Lee, Shamokin, Pa. Owner, Geo. J. Higgins, Shamokin, Pa. Brick and terra cotta, 3 stories, 50x160 feet, slag roof (steam heating, electric lighting and plumbing reserved), concrete floors, metal lath, tile and marble work, hollow tile. Plans in progress. Architect will be ready for bids March 1st.

Synagogue, Shamokin, Pa. Architect, T. J. Nolan, May Building, Shamokin, Pa. Owner, name withheld. Brick veneer, 1 story and basement, 35x80 feet, slate roof, steam or hot water heating, yellow pine floors, electric lighting. Plans completed.

School, Wayne avenue, Williamsport, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owners, Williamsport School District, care of architect. Brick, 1 story, 125x160 feet, electric lighting, metal

lath, maple floors, tile-work. Plans in progress.

Store and Apartment Building, Independence and Anthracite streets, Shamokin, Pa. Architect, W. H. Lee, Shamokin, Pa. Owner, Dr. K. C. McWilliams, Shamokin, Pa. Brick, 3 stories, 100x170 feet, slag roof, steam heating, electric lighting, yellow pine floors. Plans in progress. Architect will take bids about March 1st.

Residence, near Overbrook, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, LeRoy P. Leas, care of Leas & McVitty, 305 Vine street, Philadelphia. Stone, 2½ stories, 33x110 feet, shingle roof (vapor heating, electric lighting, plumbing and tile work reserved), hardwood floors. Plans in progress. Architect will take bids in two weeks.

Garage, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Clayton Wilson, 51 Greenwood avenue, Lansdowne, Pa. Hollow tile and plaster, 1½ stories, 22x32 feet, shingle roof, steam heating, electric lighting, cement floors. Plans completed. Ready for bids.

Church, Taylor avenue and Gibson street, Scranton, Pa., \$60,000. Architect, John J. Hawley, Traders' Bank Building, Scranton, Pa. Owner, Rt. Rev. Bishop M. J. Hoban, Wyoming avenue Scranton, Pa., Pressed brick veneer, 1 story and basement, 125x50 feet, slate roof, steam heating, electric lighting, concrete and hardwood floors, tile and marble work. Architect taking bids, due in one week. Peter Stipp, 327 N. Washington street; L. T. Stipp, Union Bank Building; M. J. Ruddy, 421 Lackawanna avenue; Beilman & Son, 220 Ash street; Palumbo & Kroft, Real Estate Exchange Building, and Louis Caputo, 1039 S. Main street, all of Scranton, are figuring.

Parochial School, Avoca, Pa., \$33,000. Architect, J. J. Hawley, Traders Bank Building, Scranton, Pa. Owner, Rev. M. F. Crane, Avoca, Pa. Brick veneer, 2 stories and basement, slag and slate roof, steam heating, electric lighting, metal lath. Architect taking bids. Turon & Schwartz, 7 W. Railroad, Pittston, Pa.; James Niland, 907 Beech street; Tony Karny, Nay Aug Lumber Co., Prescott street and Ridge Row, all of Scranton, are figuring.

Cafe (alt. and add.), West Market street, Wilkes Barre, Pa., \$10,000. Architect, Geo. F. Schroeder, Weitzenkorn Building, Wilkes Barre. Owner, Adam Turkes, on premises. Consists of brick, tile and marble work, 1 and 2 stories, 150x18 feet, slag roof, steam heat-

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ing, electric lighting, tile floors, bar fixtures, dumbwaiters. Architect taking bids. James Monks, Luther Roth, A. D. Thompson, 370 South Main street, and Kehoe & Mowrey, 729 Franklin street, all of Wilkes-Barre, Pa., are figuring.

Apartment House, Wilkes Barre, Pa., \$45,000. Architects, Newberry & Foster, Miners Bank Building, Wilkes Barre. Owner, name withheld. Brick, 3 stories, 75x100 feet, slag roof, steam heating, electric lighting, metal lath. Preliminary sketches in progress.

Garage and Residence, Hazleton, Pa., \$15,000. Architect, Geo. F. Schroeder, Weitzenkorn Building, Wilkes Barre. Owner, name withheld. Brick, stucco and hollow tile, 2½ stories, 40x48 feet, tile roof, vapor heating, electric lighting, hardwood floors, hollow tile work, tile work. Sketches approved.

Garage, Wilkes Barre, Pa., \$15,000. Architects, Newberry & Foster, Miners Bank Building, Wilkes Barre. Owner, name withheld. Brick, 2 stories, 60x100 feet, slag roof, steam heating, electric lighting, concrete floors, (1) elevator, gasoline storage. Sketches in progress.

Utility Building (alt.), Hazleton, Pa., \$12,000. Architect, Geo. F. Schroeder, Weitzenkorn Building, Wilkes Barre. Owners, Hazleton Cemetery Assoc., Hazleton, Pa. Brick and marble trimmings, 30x30 feet, Spanish tile roof, steam heating, electric lighting, tile and hardwood floors, marble work, tile work. Plans completed.

Residence (alt. and add.), Quincey avenue, Scranton, Pa. Architect, John B. Thomson, 717 Connell Building, Scranton, Pa. Owner, John G. McConnell, care architect. Frame, tin roof, steam heating, electric lighting, yellow pine floors. Architect will take bids in about one week.

Office Building and Flat, Olyphant, Pa. Architect, R. W. Snyder, Title Guarantee Building, Scranton, Pa. Owners, Olyphant Water Co., Olyphant, Pa. Fireproof construction, 2 stories, 25x60 feet, slag roof, steam heating, gas lighting, concrete floors. Plans in progress. Architect will take bids in about one week.

Market Building (alt. and add.), Reading, Pa. Architects, Const. Dept., Swift & Co., 60 N. Market street, Boston, Mass. Owners, Swift & Co., Reading, Pa. Brick and concrete, 3-story addition, 60x116 feet, composition roof (2 smoke houses), metal lath, waterproofing, electric work, refrigerating steam heating, elevator, machinery, paving brick reserved). Owners taking bids, due February 13th. Monaghan & Losse, Inc., 3016 Chestnut street; John N. Gill & Co., Otis Building, and A. L. Carhart, Hale Building, are figuring.

Mill No. 5, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Stelhi Silks Corp., 104 E. Twen-

ty-fifth street, New York City. Stone, brick and concrete, 3 stories, 70x282 feet, slag roof, (heating, electric work and elevator reserved), trussed concrete steel sash, waterproofing, fire doors, safety treads, concrete and maple floors. Architect taking bids, due February 12th. Pomeroy Const. Co., 1609 Ransstead street, is figuring.

Garage, Shillington, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, John L. Rhodes, Reading, Pa. Brick, steel, concrete and stone, 2 stories and basement, 48x126 feet, slag roof, steam heating, electric lighting, metal lath, concrete floors, gasoline storage system. Owner taking bids, due February 20th. Daniel Hunter, Charles Schlegel, Mt. Penn, and H. J. Rodenbush, all of Reading, Pa., are figuring.

Garage, Mineral Spring road, Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owner, Max Luria, Mineral Spring road, Reading. Brick and stucco, 2 stories, tile roof, hot water heating, electric lighting, cement and wood floors. Plans in progress.

Garage, Fleetwood, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owner, Harry Ulrich, Fleetwood, Pa. Brick, 1 story, 20x24 feet, slate or tile roof, hot water heating, electric lighting, cement floors. Plans in progress.

Twin Residence, Pennside, Pa. Architect, C. T. Young, 520 Washington street, Reading, Pa. Owner, J. B. Schaeffer, Pennside, Pa. Frame and stucco, 1½ stories, 28x48 feet, slate roof, hot air heat, electric lighting, metal lath, wood floors. Plans in progress. Owner will sub-let all contracts.

Residence, Wyomissing, Pa., \$25,000. Archi-

tect, H. J. Maurer, Baer Building, Philadelphia. Owner, William H. Hendel, Reading, Pa. Brick and stucco, 2 ½ stories, 41x85 feet, tile roof, hot water heating, electric lighting, hardwood and tile floors, cabinet work, tile and marble work (heating and plumbing reserved). Architect taking bids, due March 5th.

Residence and Garage, Carsonia avenue, Pennside, Pa. Architect, Alex. F. Smith, Reading, Pa. Owner, B. T. Whitman, Reading, Pa. Brick, 2½ stories, 40x50 feet, tile roof. Plans in progress. Owner will sub-let all contracts.

Residences (4) (completion), Elkins Park, Pa. Architect, private plans. Owner, M. G. Paul, 135 South Fifth street, Philadelphia. Hollow tile and plaster, 2 and 2½ stories, shingle roof, oak floors, hot water heating, electric lighting, metal lath, tile work. Fidelity and Casualty Co. of New York, Finance Building, taking bids, due February 15th. I. T. Shoemaker, 1324 Walnut street, is figuring.

Hospital Buildings, Chester, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Chester Hospital, Chester, Pa. Brick, steel and concrete. Plans in progress. Too early for details.

School, Rockdale, Pa. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, School Board of Ashton Township, Delaware County, Pa. Stone and brick, 2 stories, 90x52 feet, slag roof, gum and cement floors plumbing, heating, ventilating and lighting separate bids). Lowest bid submitted by Flounders Bros., Media, Pa.

School, Yeadon, Delaware County, Pa., \$65,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, School Board of Yeadon, Samuel G. Boland, chairman of School Board, Yeadon, Pa. Brick, 2 stories and ground floor, 120x60 feet, slag roof. Plans about to be started.

Isaac Sharpless Hall, Haverford, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Stone, reinforced concrete and steel, 4 stories and basement, 111x67 feet, asbestos and asphalt roof, maple, cement and terrazzo floors, metal lath, waterproofing, safety treads, marble work, hollow tile, elevator (heating, plumbing and electric work reserved). Architects taking revised bids, due February 16th. Cramp & Co., Denckla Building; R. C. Ballinger & Co., 218 North Thirteenth street, and Wm. R. Dougherty, 1610 Sansom street, Philadelphia, are figuring.

PENNSYLVANIA

Contracts Awarded

Residence (alt. and add.), Whitmarsh, Pa., \$8,000. Architects, Duhring, Okie & Ziegler, Bailey Building, Philadelphia. Owner, C. Bradford Fraley, Land Title Building, Philadelphia. Brick and stone, 2½ stories, hot air and hot water heating, shingle roof, electric lighting. Contract awarded to Wolverton & Collins, 7930 Germantown avenue.

Bridge No. 6, over Jordan Creek, east of Guth, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Cata-sauqua & Fogelsville RR. Co., care P. & R. RR. Stone, timber and reinforced concrete, 3 span, waterproofing. Contract awarded to Seeds & Derham, 6314 Wissahickson avenue.

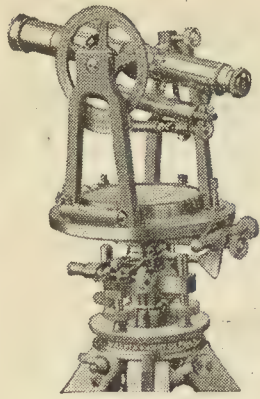
Dormitory Building (fire repairs), Corn-

wells, Pa. Architects, Henon & Boyle, 10 S. Eighteenth street, Philadelphia. Owners, Order of the Holy Ghost, Cornwells, Pa. Consists of fire repairs to tower of dormitory, steel and concrete, 3 stories, metal lath, plaster. Contract awarded to John McShain, 1610 North street, Philadelphia.

Office Building (alt.), Public Square, Wilkes Barre, \$15,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Consists of alterations, marble floors, new stone front, interior partitions, elevator enclosure, etc. Contract awarded to Shepherd Const. Co., Wilkes Barre, Pa.

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Hanover, Pa. Engineer, Jas. Boyle, Bennett Building, Wilkes Barre, Pa. Six miles and seven miles. Contract awarded to Jos. Bank Const. Co., Hanover, Pa.

Garage, Wyoming avenue, Scranton, Pa., \$65,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, name withheld. Brick, 2 stories, 150x135 feet, slag roof, steam heating, electric lighting, metal lath, composition floors. Contract awarded to Hower & Stender, Providence and Albright avenues, Scranton, Pa.

Garage, 605 Webster avenue, Scranton, Pa., \$2,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, A. B. Warman, on premises. Frame, 1 story, 20 x30 feet, slate roof, steam heating, electric lighting. Contract awarded to Hower & Stender, Scranton, Pa.

Factory (alt. and add.), Cedar and Buttonwood streets, Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owners, Penn Rag and Metal Co., on premises. Brick and frame, 2 stories, 52x97 feet,

Carey roof, electric light, metal lath, fire doors, wood floors (elevator reserved). Contract awarded to Wm. Gaul, Reading, Pa.

Factory, 1017 Chestnut street, Reading, Pa. Architect, C. J. Yuong, 520 Washington street, Reading, Pa. Owners, J. M. Fries & Sons, 1017 Chestnut street, Reading, Pa. Concrete and steel, 2 stories, 65x45 feet, slag roof, steam heat, electric lighting, steel sash, fire doors, concrete floors (heating, lighting and elevator reserved). Contract awarded to Charles Schlegel, Mt. Penn, Reading, Pa.

Mission Church, Eighth and Green streets, Marcus Hook, Pa. Architect, Ed. F. Durang & Sons Co., Inc., 1220 Locust street. Owner, Rev. Antonio Garritano, rector, Marcus Hook, Pa. Stone and brick, 1 story, 44x84 feet, slate roof, pine floors (plumbing, electric work, heating, interior furnishings and cement paving reserved by owner). Contract now awarded to Philip Di Giacomo, 2006 West Clearfield street, Philadelphia. (Note change in builder.)

NEW JERSEY Construction News

Church and Sunday School, Trenton, N. J., \$50,000. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, St. Paul's M. E. Church, Trenton, N. J. Stone, 1 and 2 stories, slate roof, steam heating, electric lighting. Plans about completed. Will take bids in about a week.

Church, Perth Amboy, N. J. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia, and J. N. Pierson & Son (assoc. architects), Raritan Building, Perth Amboy. Owners, First Baptist Church, Rev. Wm. H. Bawden, 133 Garden street, Perth Amboy, N. J. Brick, 2 stories. Plans in progress.

Foreman's Dwelling, Trenton, N. J. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Frame, 1 story, 36x24 feet, shingle roof, hot air heating, electric lighting, pine and cement floors. Plans completed. Owners, care Trenton Division, will take bids.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, 136 S. Fourth street, Philadelphia. Owner, name withheld. Frame and stucco, 2½ stories, 40x50 feet. Too early for details. Preliminary plans in progress.

Albany Apartments, Trenton and Atlantic avenues, Atlantic City, \$50,000. Architect, S. G. Dobbins, 10 S. Tenn. avenue, Atlantic City. Owners, Hempton Bros. Co., 4403 Atlantic avenue, Atlantic City. Brick and concrete, 3 stories, 50x105 feet, slate roof, hot

water or vapor heating, electric lighting, metal lath, tile and marble work, yellow pine floors. Owners taking sub-bids on all lines.

Store (alt. and add.), 2408 Atlantic avenue, Atlantic City, N. J. Architect, B. Ireland, Guarantee Trust Building, Atlantic City. Owner, Ralph Johnson, on premises. Brick, 1 story, electric lighting, hardwood floors, tile and marble work. Plans in progress.

High School, Cape May Court House, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board, Cape May Court House, N. J. Brick, 3 stories, 96x94 feet, slag roof, steam heating, electric lighting, metal lath, yellow pine floors. Plans in progress. Will take bids in about one month.

High School, Cape May, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board of Cape May, Cape May, N. J. Brick, 3 stories, 56x125 feet, slag roof, steam heating, electric lighting, metal lath, wood floors. Plans in progress. Will take bids in about one month.

Family House (2), 107 S. Vermont avenue, Atlantic City, N. J. Architect, R. H. Morgenthaler, S. South Carolina avenue, Atlantic City. Owner, name withheld. Brick, 2 stories, 29x32 feet, slag roof, hot water heating, electric lighting, yellow pine floors, tile and marble work. Architect taking bids.

Fire House (alt.), Penna. avenue, Atlantic City, N. J., \$25,000. Architects, Stout & Rie-

benack, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City. Brick and terra cotta, 2 stories, 37x100 feet, tile roof, hot water heating, electric lighting, metal lath, concrete and yellow pine floors. Plans in progress.

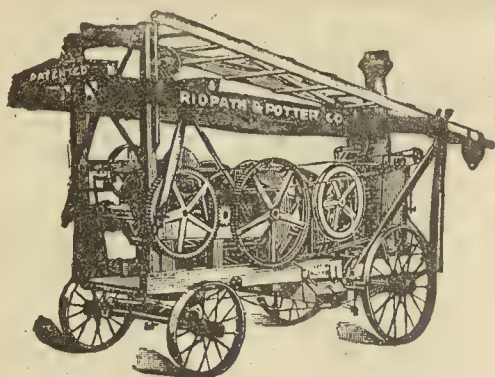
Y. M. H. A. (alt.), Stockton street, Trenton, N. J., \$85,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Y. M. H. A. of Trenton, on premises. Consists of general alterations to club house, new gymnasium, meeting and club rooms, ballroom and ladies' reception room, safety treads, tile and marble work. Architect taking bids. The following are figuring: C. Y. Barlow, W. I. Ivens, Scott & Day, Harry Levy, Carl Poinsett, Piper Bros., J. A. Dowling, and Samuel Teitz, all of Trenton, N. J.

Garage and Warehouse, Brunswick avenue, Trenton, N. J. Architect, J. O. Hunt, 114 N. Montgomery street, Trenton, N. J. Owners, Board of Freeholders, care Geo. Royle, Remington avenue, Trenton. Brick, 1 and 2 stories, slag roof, steam heating, electric lighting, tile work, concrete floors, gasoline storage system. Plans in progress.

Apartments and Cafe (alt. and add.), 105 N. Warren street, Trenton, \$12,000. Architect, R. A. Schumann, Lambert street, Trenton, N. J. Owner, Louis Miller, care architect. Brick, 4 stories, 22x126 feet, steam heating, electric lighting, metal lath, (1) dumbwaiter, tile and marble work. Architect ready for bids in a few days.

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Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Frame, 2 stories, 22x35 feet; garage, 1 story, 11x18 feet, asbestos shingle roof. Plans completed. Ready for bids.

Manufacturing Building, Second and Clinton streets, Camden, N. J., \$36,000. Architects, Moffett & Stewart, Inc., 30 North Third st., Camden, N. J. Owners, Strandwitz & Scott, care of architects. Brick and concrete, 2 stories, 60x150 feet, slag roof, wing 18x80 feet (steam heating, electric lighting, elevators and plumbing reserved), metal lath and sash, waterproofing, fire doors, ventilators, metal window guards, metal lockers. Architects taking bids, due February 17th. Wills, Ludwick Co., 34 South Seventeenth street, and Metzger & Fisher, Denekla Building, Philadelphia, are figuring in addition to those previously reported.

High School, Bridgeton, N. J., \$125,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board, care of Frank Cowan, secretary, Bridgeton, N. J. Stone or brick, reinforced concrete, 2 stories and basement, 215x80 feet, slag roof (steam heating, electric lighting, plumbing and iron

work reserved), metal lath, waterproofing and dampproofing (fire doors, ventilators, safety treads, tile and marble work, metal lockers, cabinet work. Owners taking bids, due February 19th. The following are figuring: Geo. W. Shaner, Palmyra, N. J.; Beard Const. Co., and J. B. Trexler, Reading, Pa.; Andrew Breslin, Summit Hill, Pa.; Metzger & Fisher, Denekla Building; Melody & Keating, 1322 Race street; McCloskey & Bahls, 1620 Thompson street, and Warren Moore & Co., Commercial Trust Building, Philadelphia.

Residence, Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Miss Martha Hollingshead, Moorestown, N. J. Frame, 2½ stories, 25x40 feet, shingle roof, electric lighting, warm air heating, yellow pine floors. Plans in progress.

Residence (alt. and add.), and Garage, Moorestown, N. J. Architect, J. Fletcher Street, 129 S. Fifth street, Philadelphia. Owner, Ralph L. Freeman, Moorestown, N. J. Hollow tile and plaster, 3 stories; garage, 2 stories, 20x30 feet, tile roof, hot water heating, electric lighting, cement work. Contract awarded to Stewart L. Maines, Moorestown, N. J.

DELAWARE

Construction News

Freight Station, Hartly, Del. Architects, M. of W. Dept., Penna. RR. Co., Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Frame and shingle, 1 story, 45x16 feet, Rex tile shingle roof, hot air heating, cement and pine floors. Plans completed. Owners, care of Wilmington Division, taking bids.

Passenger Station, Hartley, Del. Architects, M. of W. Dept., Penna. RR. Co., Philadelphia. Owners, Penna. RR. Co., Broad St. Station, Philadelphia. Frame and shingle, 1 story, 42x16 feet, Rex tile shingle roof, hot air heating, cement and pine floors. Plans completed. Owners, care of Wilmington Division, will take bids.

Residences (alt. and add.), Seventeenth st., Wilmington, Del. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owner, name withheld. Consists of steam heating, electric lighting, slag roof, tile floors, tile and marble work. Plans in progress.

Office Building, Eleventh and Poplar sts., Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, New Castle Leather Co., Wilmington, Del. Brick and concrete, terra cotta trimmings, 3 stories, 30x68 feet, tile and slag roof, reinforced concrete floors, hollow tile, fire doors, tile and marble work, skylights, terrazzo work (heating, plumbing, electric work,

sprinklers, hardwood floors, elevator, paving, office partitions reserved). Architects taking bids, due February 23d. The following are figuring: Realty Const. Co., John E. Healy & Son, W. D. Haddock & Co., all of Wilmington, Del.; E. R. Hall & Bro., 34 South Seventeenth street; Pomeroy Const. Co., 1609 Ranstead street, Philadelphia.

Residence, Seventeenth and Brinkle avenue, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owner, Wm. E. Whitten, on remises. Brick, 3 stories, 50x35 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Contract awarded to John E. Healy & Son, 707 Tatnall street, Wilmington, Del.

Club House, Belvue, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, Wilmington Trap Shooting Association, care Mr. Galvin, secretary, Dupont Building, Wilmington, Del. Frame, 1 story and basement, 50x20 feet, shingle roof, wood floors, electric lighting, metal lockers, tile and marble work. Contract awarded to H. B. Carlon, 3430 W. Eighteenth street, Wilmington.

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Miscellaneous Construction News

Employee's Home, Kings Park, N. Y. Architects, Lewis F. Pilcher, Albany, N. Y. Owners, State of N. Y., care State Hospital Commission, Albany, N. Y. Brick and hollow tile stone trimmings, 3 stories, 133x38 feet and 40x52 feet, tin and slag roof, metal lath, waterproofing, dampproofing, fire doors, safety treads, tile and marble work, asphalt, cement and pine floors, wire work (heating, ventilating, plumbing and electric work reserved). Owners taking bids, due February 28th. Chas. McCaul Co., 1713 Sansom street, Philadelphia, are figuring.

Residence, Sixteenth street, Washington, D. C. Architect, E. T. Boggs, 136 South Fourth street, Philadelphia. Owner, Wm. P. Barnhard, Washington, D. C. Brick, 2½ stories, 38x34 feet, slate roof, hot air heating, electric lighting, tile work (3 bathrooms), hardwood floors. Plans about completed. Architect will be ready for bids in a few days.

Post Office and Court House, Birmingham, Ala. Architect, Jas. A. Wetmore, Treasury Dept., Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Marble, brick, stone and hollow tile, 1 and 3 stories, 350x165 feet, composition roof, cement, composition, marble and cork tile floors, metal lath, waterproofing and dampproofing, ventilators, tile and marble work, safety treads, cabinet work, terrazzo work (elevators reserved). Owners taking revised bids, due March 2d. Chas. McCaul Co., 1713 Sansom street, Philadelphia, are figuring.

Church, Houston, Texas, \$150,000. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, First Presbyterian Church, Houston, Texas. Sketches completed. Too early for details.

Office Building, Middletown, Ohio, \$250,000. Architects, Werner & Adkins, Cincinnati, O. Owners, American Rolling Mill Co., Middletown, Ohio. Brick and concrete and stone, 3 stories, 143x168 feet, slag roof, composition, cement and pine floors, tile and marble work (heating, plumbing, electric work, elevators, concrete foundations reserved). Contract awarded to Charles McCaul Co., 1713 Sansom street.

Freight Station, Jackson's Wharf, Baltimore, Md., \$19,700. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick, steel, concrete, corrugated iron and asbestos protected siding, 1 story, 50x180 feet, slag or built-up roof, steam heating, electric lighting, pine floors, rolling steel doors and shutters, ventilators, (metal lockers, cement, structural steel and paving reserved). Contract awarded to David M. Andrew Co., Mt. Vernon and Twenty-sixth streets, Baltimore, Md.

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Philadelphia

Dwellings (19), Rockland street, west of Germantown avenue, \$53,200. Charles Land (O and C), Twenty-eighth and Cambria sts. Brick, 2 stories, 16x41 feet, slag roof, hot water heating.

Store and Hall, 2630-32 W. Columbia avenue, \$5,390. Fauser & Mauser (O), Bailey and Columbia avenue. Frank I. Wintz (C), 1618 North Twenty-fourth street. Brick, 2 stories, 35x35 feet, slag roof.

Dwellings (162), Lamber street and Snyder avenue, \$334,400. Burton Simon (O), Nineteenth and Passyunk avenue. H. V. Williams (C), 2334 South Twentieth street. Brick, 2 stories, 16x42 feet, slag roof, hot water heating.

Garages (51), Twenty-first and Lambert streets, \$15,500. Burton Simon (O), Nineteenth and Passyunk avenue. Brick, 1 story, 9x15 feet.

Restaurant, 9-11-13 North Seventh street, \$25,000. Chas. Ricker, 10 North Seventh st. Nickson-Duggan Const. Corp. (C), Bailey Building. Brick, 3 stories, 48x11 feet, 2 stories, 28x11 feet, slate roof, steam heating.

Garage, Sixtieth and Dakota streets, \$1,000. A. J. Boylan (O and C), 265 S. Sixtieth st. Brick, 1 story, 50x100 feet, slag roof.

Garage, 915 Princeton street, \$500. Leslie Quinlan (D and C), on premises. Brick, 1 stories, slate roof, 12x188 feet.

Garage, 2325 Race street, \$650. Chas. Spielberger, 912 W. Huntingdon street. Josiah Gaertner (C), 2214 North Third street. Brick, 1 story, 17x29 feet, slag roof.

Garage, 631 North Third street, Philadelphia, \$1,000. Harry Grehring (O), Third and Fairmount avenue. Wm. F. Koelle & Co. (C), Twenty-sixth and Oxford streets. Brick, 1 story, 16x32 feet, slag roof.

Garage, 641 Wynnewood road, \$700. F. J. Smith (O), on premises. Herman Voight (C), Twenty-sixth and Thompson streets. Brick, 1 story, 10x17 feet, slag roof.

Garage, 933 Spring street, \$2,200. Harry C. Hochstadter (O), 1329 Race street. Dominic Iedo (C), 515 Chirstian street. Brick, 1 story, 45x24 feet, slag roof.

Dwellings (38), 6302 to 6340 Regent street, 6305 to 6335 Regent street, 6303 Regent st., 6300 Regent street, \$9,500. Harry Donaghy (O and C), 1524 Chestnut street. Brick, 2 stories, 15x60 feet, slag roof, steam heating.

Shed, 617 Cypress street, \$1,000. Simon Mogul (O and C), 329 South Fifth street. Brick, 1 story, 16x42 feet, slag roof.

Garage, 840-42 North Twenty-sixth street, \$6,000. Finnessey & Kohler (O), Twenty-sixth and Parrish streets. Herman Voight (C), Twenty-sixth and Thompson streets. Brilk, 1 story, 40x10 feet, slag roof.

Warren Biscoe (C), 3954 Ludlow street. Brick, 1 story addition, 20x18 feet, tin roof.

Store, 1611-13-15 Susquehanna ave., \$2,000. Lydia Ackert (O and C), care N. Philadelphia Trust Co., Broad and Erie avenue. Repairs.

Store and Dwelling, Redfield and Lansdowne avenue, \$700. Mrs. Rose Lukay (O), 1515 North Redfield street. David Sokolam (C), 421 Dudley street. Brick, 1 story addition, 15x12 feet, flush bulk.

Department Store, 825 Market st., \$7,000. Strawbridge & Clothier (O), Eighth and Market streets. Stacy Reeves & Sons (C), 2011 Market street. Erect a fire tower.

Store, 704 S. Fifth street, Philadelphia, \$790. M. Lielen (O), on remises. B. Born-

stein (C), 1510 North Franklin street. Alterations, bulk windows.

Building, Thirty-fifth and Grays Ferry road, \$5,500. D. B. Martin Co. (O), Thirty-sixth and Grays Ferry avenue. M. M. Kellogg Co. (C), Norristown, Pa. Brick stable.

Buildings, 1535-37 North Randolph street, \$400. Jos. H. Billington & Co. (O), on premises. S. G. Matthews & Co. (C), 916 North Ninth street. Iron frame bridge.

Store, 1626 Chestnut street, \$385. Mr. Dalsimer (O), Hotel Lorraine. The Burrell Heating Co. (C), 1120 Walnut street. Steam heating system.

Dwelling, 1222 Tasker street, \$375. G. Enuler (O), on premises. J. L. Festa (C), 1435 South Sixteenth street. Brick, 2 story addition, 11x10 feet, tin roof.

Store, 2810 Germantown avenue, \$400. Jos. Scholes (O), 2836 North Sixth street. William Janes (C), 2924 North Fifth street. General alterations.

Storage House, 1644 Ludlow street, \$1,400. Leon Dalsimer (O), Hotel Lorraine. Freund Const. Co. (C), Bulletin Building. Brick and stone, 2 story addition, 13x14 feet.

Garage (alt.), 5338 Germantown avenue, \$2,000. M. Gaigler (O), on premises. Henry Specht (C), Willow Grove. Alterations.

Dwelling, 5561 Chestnut street, \$3,950. E. Shuster (O), 5571 Chestnut street. Harry Malamut (C), 627 Gerritt street. Hot water boiler and radiators.

Store, 1203 E. Cheltenham avenue, \$700. N. Weisel (O), on premises. S. G. Humphreys (C), 1802 Park avenue. Brick, 1 story addition, 15x13 feet.

Shop, 2518-20 S. Fifty-second street, \$1,700. Louis Weber (O), on premises. Herman Voight (C), Twenty-sixth and Thompson sts. General repairs.

Elevator Shaft, Meadow and Reed streets, \$800. Franklin Sugar Refining Co. (O and C), on premises. Elevator shaft.

Drygoods Store, 335 W. Girard avenue. J. P. Jacobson (O), on premises. Albert Schmitt (C), 2449 North Hancock street. Repairs.

Rooming House, 23 and 25 North Seventh street, \$2,600. Yarrow and Van Pelt (O), Seventeenth and Chestnut street. A. D. Crousk (C), Drexel Hill, Pa. Interior alterations.

Hospital, Front and Huntingdon streets, \$8,200. Episcopal Hospital (O), ront and Lehigh avenue. Thos. Little & Sons Co. (C), 1713 Moravian street. Brick, 1 story addition, 36x42 feet, slate roof.

Plumbing Shop, 1019 Cherry street, \$500. Clarence E. Miller (O), 35 North Eleventh street. Albert Ziegfeld (C), northeast corner Broad and Walnut streets. Flush bulks.

Hospital, Thirty-fourth and Spruce streets, \$36,000. Trustees of U. of P. (O), on premises. Pomeroy Const. Co. (C), 1609 Ranstead street. Repairs.

Rooming House, 1221 Walnut street, \$1,800. Mary E. Holly (O), 643 North Fifteenth st. Robert Bryson (C), Twelfth and Market sts. New bathrooms.

Garage (add.), 1529 Caslanton street, \$480. G. H. Sherwood (O), 1516 Callowhill street. Levi Ellis (C), 2336 W. Firth street. Brick, 1 story, 16x21 feet.

Store, 631 Market street, \$700. R. Goldberg (O), 235 Market street. A. MacIntosh (C), 1515 Pine street. New bulks, repairs.

Dwelling, Sixty-first and Thompson street, \$800. Chas. J. Pascoe (O), on remises. Wm. J. Reiner (C), 1551 North Sixtieth street. Brick, 1 story rear addition, 16x20 feet, slag roof.

Store and Factory, Eighth and Filbert sts.,

Alterations and Additions

Garage (add.), 2708 Hope street, \$1,397. Harry Holdsworth (O), 115 W. Lehigh avenue. James Armstrong (C), 4732 N. Front street. Brick, 1 story addition, 19x22 feet, slag roof.

Dwelling, 1500 Locust street, \$1,550. E. Hopkinson, Trustee (O), 905 Walnut street. William Ferguson (C), 405 South Twenty-first street. Brick, 1 story addition, 10x6 feet.

Storage Building, rear 419-23 North Eighth street. Brown & Bailey (O), Franklin and Willow streets. J. A. Stratton (C), 218 N. Thirteenth street. Brick, 1 story addition, 72x48 feet, slag roof.

Dwelling, 2311 North Thirty-third street, \$800. Dr. E. F. Biscoe (O), on premises.

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\$1,700. J. Leberman (O), 2219 N. Twelfth street. Lam Bldg. Co. (C), 1001 Wood street. Repair fire damage.

Manufacturing Building, Trenton avenue and Huntingdon street, \$2,000. Kensington Hygiene Ice Co. (O), on premises. Cooling Tower Co. Inc. (C), 50 Broad street, N. Y. Brick, 1 story addition, 13x14 feet, repairs.

Building, Sixth and Filbert streets, \$800. Central Really Co. (O), 801 Denckla Building. Cramp & Co. (C), 801 Denckla Building. Underpinning walls.

Dwelling, 1502 W. Cumberland street, \$600. A. W. Kiefer (O and C), 1428 W. Cumberland street. Bulk windows and alterations.

Store and dwelling, 869 North Fifth street, \$500. S. Selaruile (O), on premises. Abe Cohen (C), 510 N. Marshall street. Alterations.

Salesrooms, 664-66 N. Broad street, \$23,000. Fiske Rubber Co. (O), New York City. Abel Bottoms & Sons Co. (C), 3611 Walnut street. Concrete, 1 story addition, 17x21 feet.

Department Store, Eighth and Market sts., \$3,000. Lit Bros. (O), on premises. F. W. Van Loon (C), Denckla Building. Escalator.

Dwelling, Eleventh and Pine streets, \$650. Henry Chapman (O), Broad and Pine streets. Burd P. Evans (C), Thirteenth and Wallace street. Repairs.

Shoe Store, 1429 South street, \$575. Newark Shoe Store (O), 719 W. Lombard street. Baltimore, Md. Morris Sobel (C), 903 Cherry street. New bulk windows.

Commercial Museum, Thirty-fourth and Spruce streets, \$3,400. Meadowbrook Club (O), Wanamaker's Store. Doyle & Co. (C), 1519 Sansom street. Temporary stands.

Tenement House, 3219-21 Hamilton street, \$2,000. G. F. Weiner (O), 4624 Springfield avenue. Durham Bros. (C), 1213-15 Filbert street. Hot water heating, 1 story addition, 12x8 feet.

Banking House, 1338 Chestnut st., \$2,000. Chandler Bros. & Co. (O), on premises. Wallace & Warner (C), Real Estate Trust Building. Alterations.

Tenement House, 921 Lombard street, \$600. Whiteside & McLanahan (O), Fifteenth and Pine streets. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

Store and Dwelling, 424 South Fifth street, \$600. Sol. Krauser (O), on remises. Harry Miller (C), 427 Catherine street. New flush bulk windows.

Tenement House, Frankford avenue and Margaret street, \$3,800. Wm. Frichofer (O), Twentieth and Indiana avenue. Rush Bros. (C), 1100 Fillmore street. Interior alterations.

Store and dwelling, 3120 Kensington avenue, \$1,200. M. Brady (O), on premises. H. P. Werner (C), 3245 Germantown avenue. Flush bulk, wood floors.

Garage, 558-60 North Twenty-third street, \$500. Estate of H. K. Kindig (O), 220 North Delaware avenue. Clayton Loffand (C), Water and Race streets. Steam heating system.

Foundry, Ninth and Girard avenue, \$1,800. Wm. Adams Foundry Co. (O), on premises. Chas. McCaul Co. (C), 1713 Sansom street. Repair fire damage.

Dwelling, 1225 South Juniper street, \$325. Dom. Santo (O and C), on premises. One-story rear addition, brick, 11x10 feet, slag roof.

Store and Dwelling, 42 Armat street, \$500. Howard Smith (O), 1129 East Cheltenham avenue. Stokes Bros. (C), 6723 Musgrave street. Hot water heating, flush bulk.

Store and Dwelling, 2802 "D" street, \$890. Mr. Mandell (O), 2834 Kensington avenue.

Thos. Sheridan (C), 3017 Bourdinot street. One-story side addition, 25x14 feet, interior alterations.

Dwelling 1402 South Clarion street, \$750. Vincent Rangione (O and C), on premises. Two-story addition, brick, 11x10 feet.

Dairy, Thirty-first and Chestnut streets, \$1,000. Abbott's Alderney Dairies (O), on premises. R. C. Ballinger & Co. (C), 218 North Thirteenth street. Steel sash.

Store, 1428 Chestnut street, \$1,000. Searing Wilson (O), Pennsylvania Building. Basch & Co. (C), 1426 South Front street. Flush bulks.

Wharf, Delaware River and Morris street, \$575. Baugh & Sons Co (O and C), foot of Morris street. Concrete foundation for storage bank.

Warehouse, Penn and Unity streets, \$2,000. Frankford Grocery Co. (O), on premises. Barclay White & Sons (C), 1713 Sansom street. Alterations.

Banking House, 325 Chestnut street, \$8,000. Fidelity Trust Co. (O), 325 Chestnut street. H. E. Baton (C), Twelfth and Sansom streets. New partitions, skylights.

Dwelling, Sixteenth and Pine streets, \$8,500. Helen C. Chapman (O), 1348 Pine st. Burd P. Evans Co. (C), Thirteenth and Wallace streets. Three-story addition, brick, 18x8.6 feet, slag roof.

Hospital, Twentieth and Susquehanna avenue, \$12,500. Women's Homeopathic Hospital (O), on premises. F. L. Hoover & Sons, Inc. (C), 1023 Cherry street. Two-story front addition, brick, 39x20 feet, slag roof.

Store, 1309 South Sixth street, \$500. A. Smith (O), 1307 South Sixth street. Barkan Bros. (C), 926 Snyder avenue. Brick, 1 story, 13x31 feet, slag roof.

Shop, 1308 South Fairhill street, \$1,000. A. Smith (O), 1307 South Sixth street. Barkan Bros. (C), 926 Snyder avenue. One-story addition, brick, 25x27 feet, slag roof.

Offices, East Thompson and Clearfield sts., \$400. E. Sutro & Sons Co. (O), on premises. John Baizley Iron Works (C), 514 South Delaware avenue. Fire escape and fireproofing.

Shoe Store, 1228 Market street, \$2,000. Harper Shoe Co. (O), on premises. Kramer Woodworking Co. (C), Third and Cumberland streets. General alterations and repairs.

Kitchen, 1225 Herbert street, \$400. J. Vandiford (O), on premises. Rush Bros. (C), 1100 Fillmore street. One-story addition, brick, 14x3.6 feet, tin roof.

Market House, Croskey street and Columbia avenue, \$875. John Serrill Estate (O), 2759 North Fifteenth street. Sheperta & Anderson (C), 1152 Wagner avenue. Brick wall and repairs.

Cigar Store, Juniper and Market streets, \$1,200. United Cigar Stores Co. (O), New York City. Edw. Fay & Sons (C), 2 South Mole street. General alterations.

Store, 260 South Eighteenth street, \$500. Theo Bailey & Co. (O), on premises. Elfrehth & Co. (C), 1633 Ranstead street. Flush bulks.

Saloon, 1512 Market street, \$390. Philadelphia Sign Co. (O and C), 131 South Eleventh street. Electric sign.

House, Rhawn street, west of P. R. R., \$3,375. American Manganese Bronze Co. (O), on premises. P. A. Sorenson (C), 1133 Callowhill street. One-story addition, 40x22 feet, slag roof; two-story addition, 20x25 feet, slag roof.

Store, 1015-17-19 Market street, \$20,000. The Earle Stores (O), on premises. O'Meara Const. Co. (C), Philadelphia. Interior alterations.

Store, 39 North Ninth street, \$600. Fidelity

Trust Co. (O), 325 Chestnut street. Arthur L. Brown (C), 1903 East Clearfield street. New flush bulks.

Store, 1018 Chestnut street, \$1,000. Marshal & Bush (O), 113 South Thirteenth street. Frank Rieder & Bros. (C), 1507 Germantown avenue. Store fixtures.

Store and Dwelling, 3518 Longshore street, \$1,460. George Rothshamn (O), on premises. Geo. W. Baylie (C), 3603 Knox street. One-story front addition, brick, 15x16 feet, flush bulks, slag roof.

Store and Dwelling, 2628 Germantown avenue, \$500. Wm. Morris (O), 8 North Thirteenth street. H. P. Werner (C), 3245 Germantown avenue. New bulks, cellar door.

Store and Dwelling, 3407-9 North Thirteenth street, \$5,000. Harry Zibman (O), 3412 Germantown avenue. J. Y. Loux (C), 1121 Rising Sun Lane. One-story addition, brick, 40x50 feet, slag roof, flush bulks.

Rooming House, 411 South Broad street, \$600. Pennsylvania Co. (O), 517 Chestnut street. Brownworth & Co., (C), 1611 Sansom street. Fire escape.

Rooming House, 1302 Pine street, \$600. Pennsylvania Co. (O), 517 Chestnut street. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

Store and Dwelling, 5902 Baltimore avenue, \$2,634. Estate of Bernard MacMackin (O), Land Title Building. Ferguson & McDowell (C), 1003 South Fifty-first street. New flush bulks, alterations.

Boiler House, American street, north of Diamond street, \$1,000. Dungan-Hood Co. (O and C), American and Susquehanna avenue. Foundation for boiler.

Foundry, Hedge and Gillingham streets, \$1,400. Geo. Flint (O), Bourse Building. John Jamison (C), 2581 East Huntingdon street. New floors, alterations.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 10, 1917.—Sealed proposals will be opened in this office at 3 P. M. March 29, 1917, for the construction of the United States post office at Coshocton, Ohio. Drawings and specifications may be obtained from the custodian of the site at Coshocton, Ohio, or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after February 15, 1917. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 7, 1917.—Sealed proposals will be opened in this office at 3 P. M., March 21, 1917, for the construction of the United States post office at Martins Ferry, Ohio. Drawings and specifications may be obtained from the custodian of the site at Martins Ferry, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

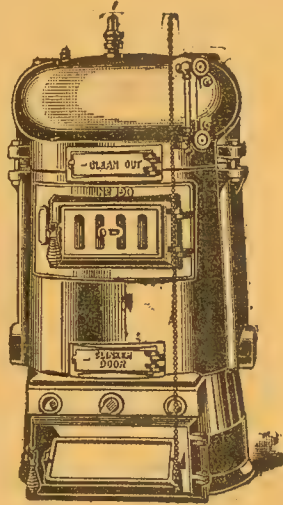
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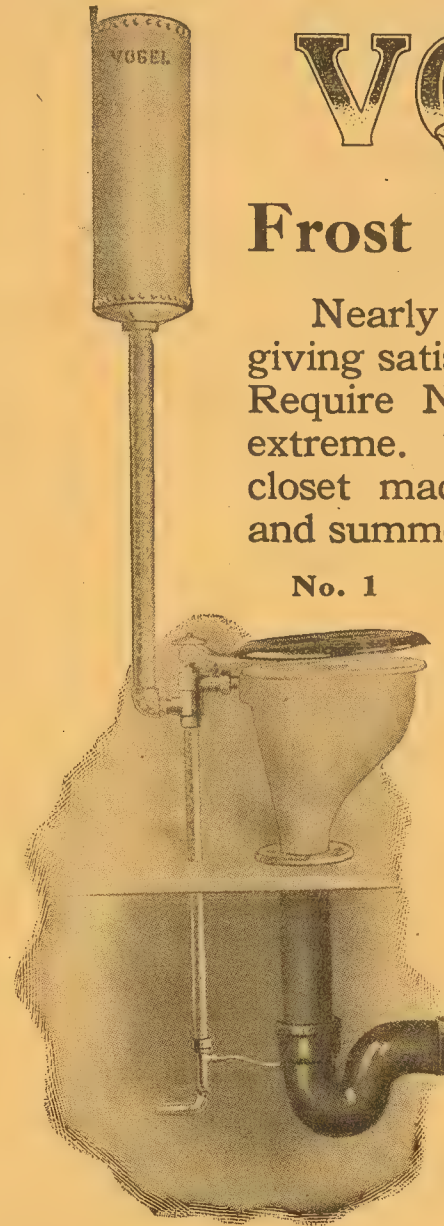
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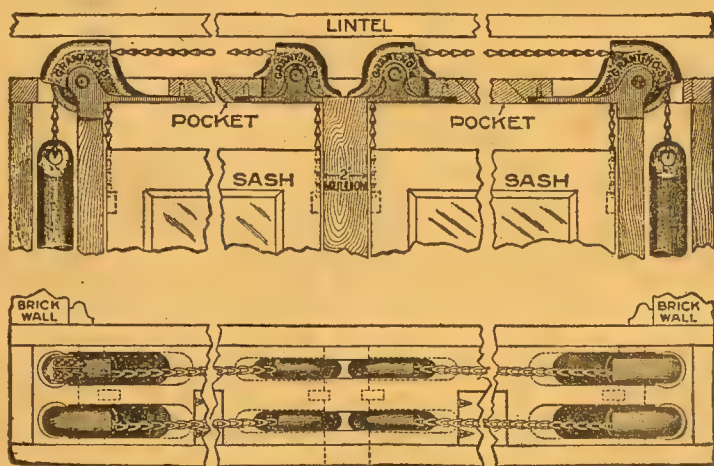
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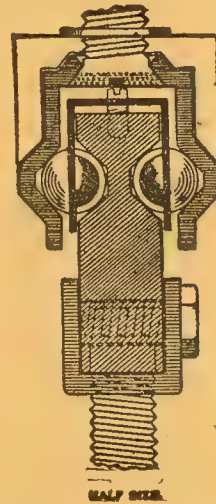
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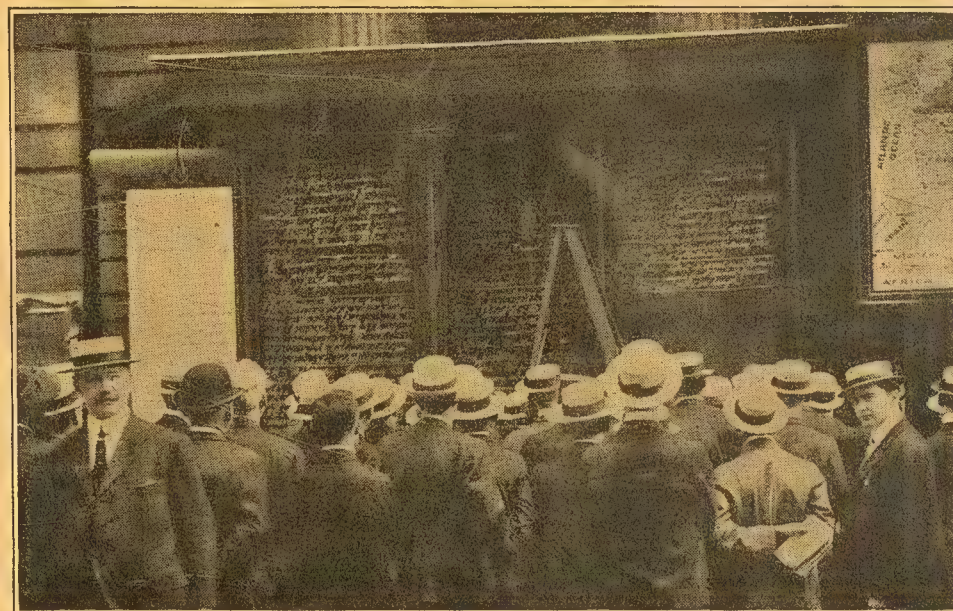
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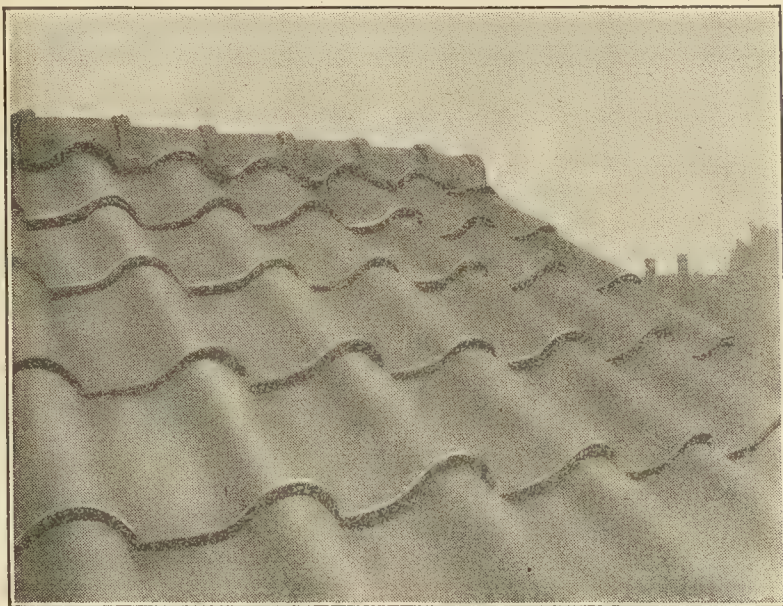
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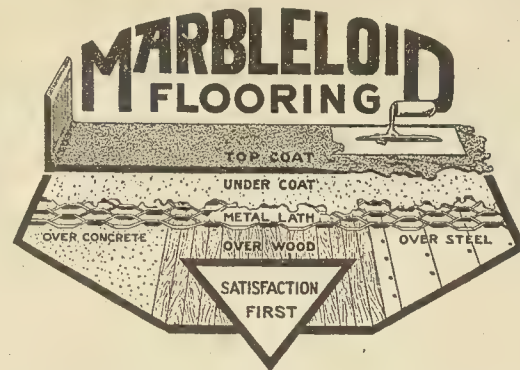


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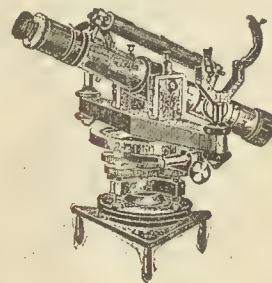
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 8

PHILADELPHIA
February 21, 1917



As The Editor Sees It



A FEATURE of the January number of *The Journal of the American Institute of Architects* is the new department, edited by Mr. D. Knickerbacker Boyd, of this city, under the head of "Structural Service." Just what is sought to be accomplished by this collating of standards Mr. Boyd explains, in a "Foreword," as "the desire to help in perfecting the art and science of building and in advancing the standing of the professions, trades and crafts which are concerned therewith."

How comprehensive is the scope of this effort to assemble, intelligently and with systematic method, the very considerable number of unrelated agencies now working for standardization may be judged by mention of the circumstance that Mr. Boyd's department in the January number of the *Journal* consumes not less than fifteen closely-printed pages. The amount of correspondence, of inquiry, of research, of reference and cross-reference, involved in a task of this magnitude may be understood only by one who has essayed to bring into an orderly agreement the loose ends of fabrics alike as to texture but utterly at variance as to design. How thorough is the plan underlying this co-ordination of the agencies at work for standardization may be inferred from the sub-heads treated in Mr. Boyd's initial contribution to the work.

These sub-heads include:

Foreign governments, institutions and architectural societies.

U. S. governmental departments, professional, technical and other associations.

Testing, inspection and research facilities.

Foundational requirements, concrete piling, steel piling.

Waterproofing and dampproofing.

Cement and concrete.

Concrete fills and various top coats.

Treatment of concrete floors and surfaces.

Structural iron and steel.

Preservation of iron and steel.

In addition to review of these various subjects, considered as contributing factors to the dominant idea of intelligent and uniform standardization, there is a not less careful review of subordinated agencies working at some point or in lesser degree to the same general end. All of the information is carefully keyed so as to admit of instant reference and should prove of immense and lasting value. A phase of the work that serves to show to some extent the spirit in which it is being approached is presented in the offer of the *Journal* to furnish readers with additional sources on request—necessary condensation making compulsory the limiting of references published to the more important in each industry.

* * *

THE GUIDE begs to compliment Mr. Boyd upon the skill and thoroughness with which he has set out upon a task which, when its outlines were first brought to our notice, seemed to us to present difficulties of an insuperable character. That the work will be followed with the closest attention by architects, builders, structural engineers, material men and all others interested in honest building, is in the nature of a foregone conclusion. Unless we are much at sea in our estimate of the drift of affairs the outcome of this review must be the bringing in to ultimate uniformity and understanding, of all of the agencies official and civil, professional and lay, now laboring to reach intelligent and fixed standards

in the trades, the arts and crafts identified with building.

* * *

BY the way, or by your leave, as the case may be,—the subject of public building comes in for the major share of attention in the editorial comment of the January *Journal*. The situation in the office of the Supervising Architect, as disclosed in the annual report of June 30, 1916, shows that 269 buildings, authorized by Congress in 1913 and the spring of 1915, were still awaiting plans and specifications at the time this report was submitted. With labor and material costs advancing as they have been during the past two years it may easily be understood what modifications in design will be necessary to bring these buildings within the original estimate when they come finally to be built. In presenting the "pork" bill to the present Congress Chairman Clark of the Committees on Public Buildings and Grounds submitted with it a report from which the *Journal* quotes the following:

"It will also be noted that the bill carries a provision for the construction at such places where only the postal and civil service needs of the Government are to be taken care of, of *factory or block type of buildings* capable of being enlarged and added to as the necessities of the service may require. It has been the custom of the Government in past years to construct in small cities and towns magnificent buildings of stone and marble, which were entirely out of place and not in keeping with the surroundings, and in a great many places totally unfitted for the purpose intended. It is the view of this committee that a post office should be essentially a workshop and that it should be constructed with a view to efficiency, economy, and

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the comfort of the employees. . . . We believe that the time is past, and, in fact, it never should have existed, when monumental buildings should be constructed for the conduct of the postal business of the United States. As stated hereinbefore, the Committee is decidedly of the opinion that the post office should be essentially a workshop, with plenty of light, air, and space in which to efficiently and economically transact the business of the Republic."

* * *

HERE we have a renewal of the oft-reiterated congressional idea of the "Edison block house" theory as applied to the construction of federal buildings. For years a certain, unrepresentative element in Congress has been clamorous in behalf of what its votaries describe as "a standard type of building" by which they imply an economical design capable of endless duplication without reference to locality, artistic sensibility or any principle whether of art or ethics other than the mere saving of money. That this money could be much more effectively saved by omitting the unnecessary rearing in obscure villages of federal buildings the sole excuse for which is the desire of some Congressman to exploit his ability as a "pork-getter" does not seem to have occurred to Chairman Clark or his associates.

* * *

IMAGINE a nation with aspirations to cultural ideals pouring its public buildings out of a mould and you have a very fair mental picture of what the bucolic Congressman considers the proper thing to do. What does the hayseed representative care about architecture, the influence of federal buildings upon public taste, the horror of cultured foreigners brought face to face with a public building of wretched design reproduced to the point of mania!

* * *

ADEPRESSING feature of the controversy over public-building methods is the lack of any apparent comprehension of the relationship which architecture should bear to the physical needs of housing Government functions," says the *Journal*. "The allusions to the architectural element, in the press, have been pretty generally confined to sarcastic comments on 'monuments,' 'marble palaces,' and such other exhibitions of superlative democracy as have seemed best suited to convey an idea of extravagance in expenditure and an impressive disdain of all things 'impractical.' The city has howled at the village and the small town; they have replied in kind. The cry of unfairness in distribution has been raised in Con-

gress, echoed throughout the land, and re-echoed in Washington. The vital principle at stake has been lost to sight by cities and towns alike. The cities point out their large postal receipts and demand relief from annoying congestion and vexatious delays. The country places proclaim their right to consideration and accuse the large communities of selfishness and inconsideration. It reads like the tale of a scramble for largesse, rather than a discussion of a national issue which is a matter of business and nothing more, so far as the terms are concerned, and might well lead the stranger in our land to ask what 'united' means."

* * *

SHOULD the architect reserve certain hours to the salesmen who is charged with bringing to his attention the merits of materials and devices—or should he, as he does, rely upon the folder, the catalogue and the trade press for this information? Here is a question which is frequently discussed. Under the title "Are Architects Too Conservative?" Charles F. Mauer in *The Architect and Engineer* adds some new chapters to existing literature on the subject.

* * *

WRITES Mr. Mauer: "I will grant that there are some species of men posing as salesmen who will stoop to the most degrading tactics of misrepresentation, who have absolutely no regard for any man's time or privileges, who are totally ignorant of the practical uses and merits of their own products. Also, there are men who pose as architects who are not competent to properly design and superintend the construction of any buildings simply because they do not possess the technical training, a practical knowledge and experience. So it is with every other profession or business. The statutes do not prohibit any man from following any vocation he may choose, be he practically adapted for that particular line of work or not.

"The architect, the same as many other professional men, has nothing to sell but his knowledge and services. To make his services valuable and appreciated, he must know the needs of his clients and produce them intelligently, that the cost may not be excessive; he must keep up with the continual progress of the world, so that his sales may continue. If he has any other method or system whereby he can judge and criticize the merits or demerits of any material, device or method so effectively and intelligently as through personal contact and interview with the men who understand the use of them, it is a well-

guarded secret of his profession, as no business man claims to possess this superior knowledge.

"Suppose some practical mechanic has spent from three to five years of his time in perfecting some new device or method to be used exclusively in the construction of buildings, which is a decided improvement over any other device or method used for a similar purpose; or that a chemist has evolved a new building material which he has given a thorough practical time test, and that he positively knows his product is an improvement over any other similar product specified and used by the architects for the same purpose."

* * *

BOTH men know that, in order to obtain recognition of the merits of their products, they must obtain the approval and recommendations of the architects. How can they do it without personal solicitation? To introduce any new product through 'printer's ink' alone is almost an impossibility, even though finances are unlimited, which is very rarely the case.

"Let any architect examine his past record and achievements, and he will readily detect where at some time or another his client was put to considerable unnecessary trouble and expense in order to overcome defects in the construction of his building that could and would have been avoided by the architect had he devoted a little more of his time interviewing 'salesmen' in order to become thoroughly posted as to the merits and practical results of various materials and methods adaptable for overcoming that particular defect.

"The writer, while not a traveling salesman at this time, has served successfully in that capacity, and previously served as buyer in both retail and wholesale mercantile establishments. It has always been his set rule to grant every salesman an interview, to hear his story, to see what he had. If he had something new and better than any other similar products, I would consider myself under obligations to him for demonstrating the merits of his products; if they were not as good or better than old standard brands, they were not considered.

"The knowledge gained by these interviews is amazingly large and enables one to become qualified to select the wheat from the chaff, to become thoroughly conversant with the various products on the market in any line of business, and to know their merits and their weaknesses.

"So it is with the architect. If he will systematize his business so that he can shift the minor details and responsibili-

ties to the shoulders of his subordinates, he will find more spare time to devote to his clients and their interests, which can be safeguarded at any and all times only by keeping abreast with the progress of

the world; to do this, without granting the 'commercial salesman' who solicits his business an interview, is a physical impossibility for any professional or 'business man.'

EDITORIAL NOTES

The present trend of industrial building construction is indicated by a recent investigation made by W. P. Anderson, President of The Ferro Concrete Construction Co. of Cincinnati, and presented in a paper before the recent annual meeting of the American Concrete Institute in Chicago. The results of Mr. Anderson's investigation were drawn from inquiries made of the leading industries, manufacturers of all classes of metal goods, brewers, manufacturers of textiles, paper, leather, boots and shoes.

Of the representative manufacturers who were requested to furnish data 370 concerns contributed information covering 1,230 buildings erected during the period covered by the investigation. These varied greatly in size, use and construction, but all were used for industrial purposes.

The returns year by year were graphically represented in an accompanying chart for the four major classifications—all wood, brick walls (steel frame), mill construction, concrete construction. Of course, the abnormal disturbances during 1914-16 account for the great fluctuations in that period. But even up to and including 1913, the advance of concrete construction and the relative decadence of other types are distinctly noticeable. The comparative growth of the various types of building construction is most strikingly shown by comparing the periods 1905-10 and 1911-16. In the former, the returns cover 7,014,218 square feet of mill construction and only 5,152,579 square feet of concrete construction, but in the later period the area of concrete construction jumped 327 per cent., to 16,926,152 square feet, while the mill construction showed a bare increase of about 10 per cent. to 7,709,469 square feet. The estimated area for 1916 was used in making up all of these comparisons.

* * *

The thirty-second annual exhibition of the Architectural League of New York was formally opened in the American Fine Arts Building, 215 West 57th street, with the usual reception to the members of the league and their friends. The 1917 exhibition differs somewhat from those of previous years in that the various exhibits are not segregated in

separate galleries as heretofore. Architecture, sculpture, painting and craftsmanship are, in the current exhibition, to be found in harmonious groups in all galleries. The innovation is an excellent one and has done much to create a greater interest in the event that has ever before been evidenced in a function of the Architectural League.

* * *

The decorative scheme of this exhibition takes the form of a formal garden, complete with walks and growing hedges, fountains and waterfalls. The landscape effects are of high merit and add much to the setting of this important event in the art year. The decorations were designed and installed under the direction and supervision of H. Van Buren Magonigle. The Medal of Honor for architecture for this year was awarded to John Russell Pope for his design of the Temple of Scottish Rite, which was recently completed at Washington, D. C. Maxfield Parish obtained the medal for painting for his murals designed for the Curtis Building at Philadelphia and the medal for general work was awarded to H. A. McNeil for his bas-relief, "Washington, Commander-in-Chief," which was recently added to the Washington Arch in Washington Square. The exhibition will be open to the public until Saturday, February 24.

* * *

Educational in every feature, the National Complete Building Exposition, to be held in the Grand Central Palace, New York, March 5-11, will be by far the most ambitious demonstration of up-to-date building, equipment and furnishing ever attempted in the United States. It will be backed by the best expert knowledge of the country, and will exert a strong appeal to every man who is a prospective builder. Boiled down, the exposition will be a great, big, compelling argument for better building of every character.

This exposition will be but a furtherance of the movement for better building which was initiated in the First American Complete Building Show, held in Cleveland, last February. The effect of the Cleveland show has been felt emphatically the past season throughout the Middle West, and particularly Ohio,

from which the greater percentage of the attendance came. In that territory building in general the past summer was of a higher class than ever before; higher grade materials and more modern equipment were used and the gross investment was greater than in any preceding year.

* * *

Expanding beyond a mere exhibition of all kinds of building materials and equipment, the Exposition will provide instructive demonstrations of construction methods, architecture, engineering, landscaping and garden furnishment. Special divisions will be devoted to factory, commercial and general building; there will be separate displays of theatre, church and school building equipment; and the home building interest will be maintained with equal strength. In these exhibits will be especially emphasized the terra cotta, cement, metal lath, and gypsum possibilities for beauty, safety, convenience, comfort and general utility.

Negotiations are on with several associations advancing the interests of brick, tile, products, looking to community exhibits demonstrating their respective materials. Many concerns representing heating, lighting, safety devices and building materials have taken space. There will be a special machinery division and lumber will be represented by exhibits from six of the leading lumber associations of the country.

BUILDERS' GUIDE

FORMERLY

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PUBLISHED WEEKLY

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LIVING IN GLASS HOUSES HEALTHFUL.

The carpenter has finished his task and the long porch, veranda, piazza or stoop has been enclosed for the winter. The radiators, exposed to the weather five months in the year, have been regilded. Father has started a fire in the furnace. A comfortable warmth pervades the house. The French windows stand open. No one will consent to stay in the apartment known thirty years ago as the sitting room, twenty years ago as the parlor, ten years ago as the drawing room, and commonly designed as the living room to-day. Everybody has moved into the enclosed porch; the whole family wants to live in the glass house.

The popularity of enclosed verandas is recent but striking. There are certain difficulties in the way of their universal installation. They call for large—or long—radiators. The plumber, with a serious air, tells you that one square foot of glass requires ten times as much radiating surface as a square foot of plastered wall. He shakes his head as he says you will have to have a boiler two sizes larger. He specifies that the lattie work beneath the porch shall be bricked up. You agree to all his conditions because you have tasted the pleasures of dwelling outdoors the year round.—Realty.

UNFURNISHED HOUSES FOR WORKERS.

How five cities have found a unique way of housing their thousands of workers is set forth by Bristow Adams in the current number of "The Nation's Business." To house a city of 36,000 population is no small ob. To do it satisfactorily is a very big one. Add to mere numbers the complexity of mixed races and the task becomes herculean. One manufacturer sums up the situation in the two statements which follow:

"Workers will not stay in a city where they cannot live decently, particularly in view of the present demands for workers; therefore the housing problem means something to the business man who is developing his business. Building houses by wholesale means getting the result of the world's best experience, and selling the houses at the lowest cost. This means something to the business men, too, for the cheaper rent in proportion to the value, the better it is for the worker. High rent and poor accommodations promote discontent and strikes. Because of these things the business man is coming to see that it is his business to take a real interest in the character of his employees' home life."

Note that, being a business man, this person sees the problem from the business viewpoint. But note also that he begins to see it from the viewpoint of the worker, even though he is concerned with the worker's reaction on business. In the final solution everybody will see all sides through the eyes of each party concerned.

Nearly two and a half billions are spent annually in dwellings alone, and much of it not truly invested because so many houses fall short of being satisfactory.

BONUS TO TENANTS.**Keeps Down the Upkeep—Gets Longer Terms.**

Payment of annual bonuses to families occupying his houses is the plan that has been devised by a western property owner to insure proper care of the houses and to obtain and retain thoroughly desirable tenants.

After thorough trial, extending over a period of nearly 10 years, the owner of the properties asserts that the plan is successful beyond his expectations, and that its operation has resulted in reducing the upkeep expenses of the properties, practically done away with advertising cost and brought him a class of patrons such as few owners of rental properties have.

Builds and Owns Houses.

More than 10 years ago this real estate operator began to formulate his plan, the purpose of which was to offer substantial inducements to tenants to remain in his houses and to take the best of care of the properties.

Owning and building the homes, he personally attended to the details of construction and planning, and when the homes were completed he handled the renting or leasing.

The homes are in one of the large cities of the northern middle west. They are well-built houses of six to nine rooms, with bath, open fireplace and all of the modern conveniences. Well located on good streets, the properties have an annual rental of \$450 to \$500.

Details of Plan.

The plan finally adopted and put into effect was to set aside a definite per cent. of the annual rent of each house—the rent being divided into 12 monthly payments as usual—for repairs and upkeep, and another fixed per cent. for expenses of advertising, replacing tenants, etc. These funds were taken out of the rent paid for the houses and were credited to the individual buildings.

Actual cost of repair, replacing tenants, etc., were paid for out of these funds, and at the end of the year the unexpended balance of the two funds was paid to the tenant as a bonus. In case a tenant remained in a house the full year the amount that had been set aside out of the rent for advertising, replacing tenant, etc., was paid in full, and the balance, if any, of the amount set aside for repairs, upkeep, etc., was added to the bonus.

How Plan Has Worked.

The result has been that tenants of his houses take practically the same care of the houses as they would if they owned the property. It is to their interest to see that repair bills, being little or nothing, the bonus they receive will be larger.

Cost of replacing tenants, the property owner says in his statement, is usually a heavy charge against rental property. By paying to his tenants the money that probably would be spent in a year as expense for replacing tenants, reliable families are induced to lease the houses and to remain in them indefinitely.

Long-Term Tenants.

Many of the tenants have remained in the houses for 10 years—in fact, from the time the original announcement of the plan was made—while others, leasing a house since the bonus plan was put into effect, have remained tenants ever since.

The property owner now has nearly 150 houses, all of which are occupied. In addition, he has a "waiting list" of would-be tenants anxious to take any of his homes that may for any reason be vacated.—"Real Estate World."

A NEW PRIMING AGENT FOR GALVANIZED IRON.

"Lithoform" is the name of a new chemical solution that not only acts as a splendid preservative when applied to galvanized iron, arresting the processes of decay, but that causes paint to adhere to galvanized iron surfaces with a tenacity greater than that witnessed in the case of carefully primed wood. "Lithoform" when applied to the galvanized metal furnishes a coating to which paint attaches itself in such a way as to prevent peeling, flaking-off, cracking or any of the disintegratory processes common to paints applied to the iron in the absence of this valuable priming agent.

Since the discovery of Lithoform it has been thoroughly tested. The surface produced on the zinc or galvanized iron closely resembles pumice stone. It is firmly attached to the surface of the metal and slightly absorbs the first coat of paint, which on drying becomes inseparable from it; paint which, when applied directly to the galvanized iron, can be easily removed with the finger nail, requires a knife to detach it when applied after a treatment with Lithoform. Ink spilled on a surface formed with Lithoform cannot be removed even by washing. The surface formed by Lithoform can therefore be stained like a wooden surface. In fact, after treating with Lithoform, the surface can be treated as if it was an absorbent stone.

Lithoform contains no oils, varnishes, pigments or volatile solvents; in fact, it is not a paint in any sense of the word. Being a thin, non-volatile liquid, its covering properties greatly exceed that of a paint or varnish. When applied with a brush, one gallon will cover from 1,500 to 2,000 square feet. As a gallon of Lithoform will cover such a large area, the cost per square foot for material is very small, and as it requires no "brushing out" to produce an even coat, the time taken to apply Lithoform is much less than that required to apply a paint. The cost, therefore, of treating a surface with Lithoform is much less than painting it.

Lithoform is manufactured and sold by the American Chemical Company, 1118-26 South Eleventh street, Philadelphia, who will be pleased to furnish interesting descriptive literature showing tests, directions for use, etc., on request.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church and Sunday School, Fiftieth and Locust streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, First Reformed Church, care of Rev. E. R. Appenzeller, 433 South Fifty-first street, Philadelphia. Stone, 2 stories, 75x130 feet, slate roof (steam heating and electric lighting reserved), pine floors, metal lath, waterproofing and dampproofing, cabinet work, tile work. Revised plans in progress. Architects will take bids in a few days.

Motion Picture Theatre (alt.), 1311 Market street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Alex. R. Boyd, 1414 Spruce street, Philadelphia. Brick and steel, first floor and basement, 24x90 feet, cement floors, metal lath, fire doors, metal wainscot (hardware, heating, painting, plumbing, electric work, tile and marble work reserved). Architects taking bids, due February 21st. Hogg Const. Co., 1634 Sansom street; Stacy Reeves & Sons, 2011 Market street; Smith-Hardican Co., 1606 Cherry street; Freund Const. Co., Bulletin Building, and Lam Building Co., 1001 Wood street, are figuring.

Factory (alts.), Sixth and Columbia avenue, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Henry H. Sheip Manufacturing Co., on premises. Consists of new areways, brick, concrete and steel. Architects have received bids.

Store (alt.), 23 South Seventeenth street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Leon Dalsimer, Real Estate Trust Building, Philadelphia. Brick, 4 stories, plastering and painting, metal lath, cement and pine floors, millwork (electric work, steam heating, metal bulks, tile work parquetry floors reserved). Architect has received bids.

Department Store (alt. and add.), 1031 Market street, \$20,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Frank & Seder, northeast corner of Tenth and Market streets, Philadelphia. Brick, one additional story, 22x100 feet, slag roof, steam heat, electric lighting, metal lath, fire doors, tile and marble work, pine floors, store fixtures. Plans in progress.

Bank Building (alt. and add.), 1700 Tioga street, Philadelphia. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owners, Tioga Trust Co., on premises. Stone and brick, 2 stories and basement (add.), 19x32 feet, tin roof, steam or hot water heating, electric lighting, cement and pine floors, metal grilles, compo board, cabinet work, tile and marble work. Architect has received bids.

Apartment House (alts. and add.), southwest corner of Thirteenth and Oxford streets. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner's name withheld. Consists of changing residences into apartment house. Plans in progress. Too early for details.

Factory (alt. and add.), 482-84 North Fifth street. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Charles F. Datz & Co., on premises. Consists of general alterations, 2 stories, 40x106 feet, slag roof, concrete work, steam heating. Plans in progress.

Residences (41), Luray and Courtland, between Sixth and Seventh streets. Architect, private plans. Owner, Marco Marks, 508

Bailey Building and 5133 Irving street. Brick, 2 stories, 16x42 feet and 18x42 feet, slag roof, hot water heating, electric lighting, pine floors. Owner taking sub-bids.

Machine Shop and Warehouse, 943-53 North Front street, Philadelphia. Architect, private plans. Owner, Herman L. Winterer, 908 Beach street, Philadelphia. Brick and concrete, 3 stories, 70x115 feet, slag roof (heating and lighting reserved), concrete and plank floors, metal lath, rolled steel sash, fire doors, ventilators, skylights, rolling steel doors. Owner taking bids, due in one week. Wm. Steel & Sons Co., Sixteenth and Arch streets; Austin Co., Transportation Building; Harry Brocklehurst, 512 Norris street; F. A. Havens & Co., 845 North Nineteenth street; Stewart Bros., 2526 North Orkney street; H. E. Grau Co., 1709 Sansom street; A. R. Raff Const. Co., 1635 Thompson street, are figuring.

Packing Plant (alt. and add.), West Philadelphia Stock Yards, Thirtieth and Race sts., Philadelphia. Architect, C. B. Comstock, 110 West Fortieth street, New York City. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and reinforced concrete, 2 stories, 61x125 feet, asbestos reinforced concrete and composition roof, metal sash, waterproofing, fire doors, ventilators, reinforced concrete floors, hollow tile, elevators, rolling steel doors. Revised plans nearly completed. Owners will take bids in about two weeks.

Club House and Garage (add.), Emlen and Carpenter streets, Germantown. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Automobile Club of Germantown, Wm. H. Lincoln, chairman of Building Committee, 314 West Upsal street, Germantown. Ball room only, stone, 1 story and basement, 64x100 feet, asbestos shingle or slate and tin and slag roof, oak, maple and hemlock floors, pine and cement floors, metal lath, fire doors, tile and marble work (heating and electric work reserved). Architect has received revised bids.

Passenger Station, Broad and Glenwood avenue, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and terra cotta, 1 story, 2 wings, 20x50 feet and 18x30 feet, slag roof, steam heat, electric light, metal lath, rolled steel sash, marble work, terrazzo and composition floors. Owners have received bids.

Garage (alt. and add.), 5453 Lancaster avenue, Philadelphia. Architect, private plans. Owner, John Wanamaker, Thirteenth and Chestnut streets, Philadelphia. Brick and concrete, 2 and 1 stories, millwork, cement and pine floors, relocating elevator, wire work (heating, plumbing and electric work reserved). Owners have received bids.

Club House, Oak Lane, Philadelphia. Architect, Wm. E. Groben, 6719 North Sixth street, Oak Lane, Philadelphia. Owners, Review Club of Oak Lane, Mrs. E. Clarence Miller, Melrose Park, Pa., chairman Building Committee. Stone and stucco, 1 story and basement, 40x90 feet, slate roof, hot water heating, electric lighting, tile work, cement and pine floors. Plans completed. Architect will take bids in a month.

Machine Shop (alt. and add.), 1120 Vine street, Philadelphia. Architect, Clyde S.

Adams, 1509 Arch street, Philadelphia. Owners, Philadelphia Gear Works, on premises. Brick (slow burning and joist const.), 1 story and Mezzanine, add. 18x100 feet, slag roof, plumbing, electric light, metal lath, waterproofing, ventilators, pine floors. Architect taking bids, due February 23rd. Standard Const. Co., 1713 Sansom street; John Codori, 1235 Arch street; F. S. Markland, 1500 Sansom street; Hogg Const. Co., 1634 Sansom street; Conneen Const. Co., 1829 Filbert street; Smith-Hardican Co., 1606 Cherry street, are figuring.

Church, Sunday School and Parish House (fire repairs), 3925 Walnut street, Philadelphia, \$60,000. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Walnut street Presbyterian Church, Rev. J. A. MacCallum, pastor; Morris Williams, chairman Building Committee, Commercial Trust Building. Stone, 2 and 1 stories and basement, slate roof. Plans in progress.

Apartment House (alt.), 1429 Poplar street, \$3,000. Architect, Philip S. Tyre, 1509 Arch street. Owner, Julius C. Martin, care of architect. Brick, 3 stories, plumbing, electric lighting, hardwood floors, skylight, tile and marble work. Plans about completed. Architect will take bids in a week.

Foundry, Oxford road and Devereaux st., Philadelphia. Architect, private plans. Owners, Lawndale Steel Co., Inc., care of builder. Frame, concrete footings, 1 story, 50x112 feet, slag roof. F. W. Van Loon, Denckla Building, taking sub-bids.

Chapel and Tower, Tenth street and Northeast Boulevard, Philadelphia. Associated architects, Ralph B. Bencker and Price & McLanahan, 1418 Walnut street, Philadelphia. Owners, First Christian Church, Rev. I. S. Chenoweth, 1418 Euclid street, Philadelphia. Stone, brick and concrete, 2 stories and balcony and basement, 84x50 feet and 25x25 feet, tin, slate and slag roof, steam heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, cement and maple floors. Architects taking bids, due February 24th. H. E. Grau Co., 1709 Sansom street; Pringle Borthwick, 8018 Germantown avenue; J. Sims Wilson Co., 1125 Brown st.; Wm. R. Dougherty, 1610 Sansom street, and Warren, Moore & Co., Commercial Trust Building; E. E. Hollenback, Inc., 1804 Brandywine street, are figuring.

Office Building (alt.), 315 Arch street, Philadelphia. Owner, Charles E. Schmidt, 327 Arch street. Architect, private plans. Lessees, U. G. I. Co., Broad and Arch streets, Philadelphia. Mackite partitions, alterations to sixth and seventh floors, cement floors, metal lath, waterproofing, fire door, gypsum blocks (painting, plumbing, steam heating and electric work reserved). Owner has received bids.

Sunday School, Pulaski and Winona avenue, Germantown. Architect, private plans. Owners, West Side Presbyterian Church, Rev. Wm. P. Lee, 5516 Morris street; Woodruff Jones, chairman Building Committee, Lafayette Building, Philadelphia. Stone, 1 story and gallery, 80x100 feet, slate roof, steam heating, electric lighting, pine floors. Fred Elvidge & Son, 5522 Germantown avenue, taking sub-bids, due February 22nd.

Warehouse, northwest corner of Fourth and Cambria streets. Architect not selected.

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Owners, Stead, Miller & Co., on premises. Brick, six of lot 28x90 feet. Work contemplated for near future.

Manufacturing Building (alt. and add.), Sixth and Moore streets, \$100,000. Architects, Wm. Steele & Sons Co., 1600 Arch street, Philadelphia. Owners, Windsor Chocolate Co., Twenty-fourth and Hamilton streets. Reinforced concrete and brick, 4 stories (add.), 79x117 feet, slag roof, concrete and maple floors, hollow metal sash, waterproofing, fire doors, ventilators, metal window guards, weather strips, rolling steel doors (plumbing, heating, electric work, elevators and sprinklers reserved). Builders, Wm. Steele & Sons Co., 1600 Arch street, taking sub-bids, due February 21st.

Boiler House, Wheat Sheaf Lane and Coral street, Frankford. Architect, private plans. Owner, Robert H. Foerderer, Inc., Franklin Bank Building. Brick, steel and concrete, 1 story, 102x54 feet and 40x82 feet, fire doors (electric work, steel sash, asbestos roof, machinery, foundations and floors reserved. Owners have received bids.

Office Building, Market Yards, Philadelphia. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, 2 stories, 15x55 feet, slag roof, steam heating, electric lighting, composition, cement and pine floors, tile and marble work. Owners, care of Philadelphia Terminal Division, taking bids, due February 23rd. Irwin & Leighton, 126 North Twelfth street; Driscoll Co., Stock Exchange Building; Robins Cont. Co., Lafayette Building; Bailey-Lush Co., 201 North Broad street; Chas. Gilpin, Harrison Building; Chas. McCaul Co., 1713 Sansom street; Pomeroy Const. Co., 1609 Rand street; Royhouse-Arey Co., 112 North Broad street; E. E. Hollenback, 1804 Brandywine street; Metger & Fisher, Denckla Building; P. A. Havens & Co., 845 North Nineteenth street; L. H. Smith, Hale Building; Monaghan & Losse, 3016 Chestnut street; Mitchell Bros., 2125 Race street; Brann & Stuart, Commercial Trust Building; John N. Gill & Co., Heed Building; Armstrong & Latta, Land Title Building; John Goll, 1539 Filbert street; A. L. Carhart, Hale Building, and Abel Bottoms & Sons Co., 3611 Walnut street, are figuring.

Residences (8), Oak Lane, Philadelphia. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, James Orr, 2754 Germantown avenue. Brick, frame and stucco, 2 stories, 40x16 feet, Flexatile roof, hot water heating, electric lighting, hardwood floors. Plans completed. Architect will take bids in a few days.

Garage, 626 South Twenty-first street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Dunleavy Bros., Twenty-second and Bain-

bridge streets, Philadelphia. Brick, 1 story, 17x60 feet, slag roof, metal skylights, ventilators, electric lighting, cement floors. Owners will take bids in about one week.

Knitting Mill, Dye House and Power House, Hunting Park avenue and Stockley street, Philadelphia. Engineers, Howard J. Webster and W. Herbert Gibson, Harrison Building. Owner, Charles Chrstos, 2821 Helen street. Brick and reinforced concrete, 2 stories, 75x192 feet, 1 story, 70x160 feet, and 1 story, 40x70 feet, asbestos or slag roof, maple and mastic floors, rolled steel sash, fire doors, cement paving, metal skylights, rolling steel doors (plumbing, electric work, sprinklers and elevator reserved). Engineers taking bids, due February 23rd. In addition to those previously reported, Monaghan & Losse, Inc., 3016 Chestnut street; Harry Brookelhurst, 512 Norris street; R. C. Ballinger & Co., 218 North Thirteenth street; James H. Wells, Heed Building; E. R. Hall & Bro., 34 South Seventeenth street, and Warren-Moore & Co., Commercial Trust Building; Driscoll Co., Stock Exchange Building; Harrison C. Rea Co., 1027 Wood street; George & Boerst, 277 South Eleventh street, and Barclay White Co., 1713 Sansom street, are figuring.

Passenger Station (alt. and add.), Cheltenham avenue, Philadelphia, \$25,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Consists of new concrete platforms, steel and timber shelter sheds, slate roofs, stairways and elevator lift. Plans about completed. Owners and City of Philadelphia will advertise for bids in a week.

Building (alt.), 334-336 North Broad street, Philadelphia. Architects, Frank E. Hahn & Co., 1112 Chestnut street, Philadelphia. Owner, Samuel Sternberger, Tenth and Filbert sts., Philadelphia. Consists of interior alterations. Plans in progress.

Office (alt. and add.), 933-35 North Ninth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Keystone Supply and Manufacturing Co., on premises. Consists of new mezzanine floor, fire doors. Architect has received bids.

Store (alt. and add.), 804 Passyunk avenue, \$5,000. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, Kempler Bros., 810 South Sixth street. Brick, 3 stories, slag roof, vapor heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, cement and pine floors, elevator, skylight (metal). Architects taking bids, due February 21st. Morris Yachnitz, 1202 North Seventh street; Lam Building Co., 1001 Wood street; P. A. Havens Co., 845 North Nineteenth street; Wm. R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; Frank & Kaiser, 1517 South

Sixth street, and Hogg Const. Co., 1634 Sansom street, are figuring.

Store and Apartments, Eighty-fourth and Eastwick avenue. Architect, B. J. Medoff, 524 Walnut street, Philadelphia. Owner, Samuel Shain, on premises. Brick, 2 stories, 32x60 feet, slag roof, hot water heating, electric lighting, metal ceiling, yellow pine floors, tile work, metal bulks. Plans in progress.

Bridges (2), Cobb's Creek Parkway, Philadelphia. Engineer, Jonathan Jones, City Hall. Owners, Department of Public Works, George E. Datesman, Director, City Hall. Concrete and stone, 2 spans, 65 feet long. Lowest bidder, Cantrell Const. Co., Twenty-fifth and Sedgely avenue, \$47,500.

Bridge, Fifth and Allegheny avenue, Philadelphia. Engineer, Jonathan Jones, City Hall. Owners, Department of Public Works, George E. Datesman, Director, City Hall. Steel and concrete, 1 span, 55 feet long, asphalt paving. Lowest bidder, John McMenamy, 512 Walnut street, \$23,000.

Store and Apartment (alt.), southwest corner Fifty-seventh and Chestnut streets, \$500. Architect, private plans. Owner, Thos. W. Joseph, on premises. Alteration to basement, carpenter work, new bulks. Owner taking bids.

Church, northwest corner Fifty-ninth and Larchwood avenue. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Fourth Reformed Presbyterian Church, Broad and Wharton streets, John A. Wilson, 5703 Spruce street, secretary Board of Trustees. Stone. Details not decided.

Garage, Sixteenth and Ingersoll streets, Philadelphia. Architect, Amos W. Barnes, Hermit and Righter streets, Roxborough. Owners, Brighton Garage, on premises. Brick, steel and reinforced concrete, 2 stories, 88x105 feet, and 52x97 feet, slag roof, cement floors, metal lath, rolled steel sash (plumbing, heating, electric work, elevator reserved). Architect taking bids, due March 1st. Smith-Hardican Co., 1606 Cherry street; George Kessler Cont. Co., Drexel Building; A. R. Raff Const. Co., 1635 Thompson street; P. A. Havens Co., 845 North Nineteenth street; H. P. Schneider, 3713 Old York road; J. Sims Wilson Co., 1125 Brown street; P. Haibach Co., Twenty-sixth and Thompson streets, are figuring.

Store and Residence, 330 South street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, J. Edelstein, northwest corner Fourth and Morris streets. Brick, 3 stories, 13x42 feet, slag roof, hot water heating, marble trim, metal ceiling, tile work. Owner is ready for sub-bids.

Store and Dwelling (alt. and add.), northeast corner of Fourth and South streets. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, M. Rubin,

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on premises. General interior alterations, hot water heating, slag roof, metal bulks, electric lighting, yellow pine floors. Owner will take sub-bids.

Store and Apartments (alt. and add.), Sixteenth and Columbia avenue. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Max Roetenberg, 1419 Ridge avenue, Philadelphia. Brick, 3 and 2 stories (add.), 17x27 feet, tin, slate and tile roof, oak and pine floors (heating, electric work and decorating reserved). Architect taking bids, due February 26th. H. E. Grau Co., 1709 Sansom street, and Burd P. Evans Co., Thirteenth and Wallace streets, are figuring.

Store and Dwelling (alt. and add.), 1511 West Susquehanna avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Henry Love, on premises. Consists of general alterations, rear addition, brick, 2 stories, 14x15 feet, slag roof, metal skylights, metal ceilings, metal bulks, hot water heating, marble and tile work, plumbing. Owner will take bids in a few days.

Residence (alt. and add.), 1328 South Fifth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Wilderman, on premises. Brick, 2 stories, 16x20 feet, slag roof, skylight, hot water heat, electric lighting, vacuum system, cabinet work, tile work. Owner will take bids in a few days.

Loft Building, Ninth and Poplar streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Strawbridge & Clothier, Eighth and Market streets, Philadelphia. Reinforced concrete and steel, 8 stories, 101x234 feet, flat slab roof and floors, steel sash, metal skylights, concrete and tile work vacuum steam heating, electric lighting, 3 freight elevators, 1 passenger, 1 combination freight and passenger elevator, sprinkler system, chimney 72 inches diameter, 75 feet high, Radial gray brick, tower 60 feet high, mezzanine floors on first and second floors. Architects taking bids, due March 1st. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Cramp & Co., F. W. Mark Const. Co., Finance Building; Stacy Reeves & Sons, 2011 Market street; Warren, Moore & Co., Commercial Trust Building; James Stewart, Stock Exchange Building, and Turner Concrete Steel Co., 1713 Sansom street, Philadelphia.

Church and Sunday School, Fiftieth and Locust streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, First Reformed Church, care of Rev.

E. R. Appenzeller, 433 South Fifty-first street, Philadelphia. Stone, terra cotta trim, 1 story and balcony, 90x87 feet, slate and composition roof, cement and pine floors, metal lath, waterproofing, tile and marble work (steam heating, electric work, lighting fixtures, interior decorating, furniture and leaded glass reserved). Architects taking revised bids, due February 24th. F. B. Davis, 240 North Sixteenth street; E. E. Hollenback, 1804 Brandywine street; T. C. Trafford, 1613 Sansom street; E. J. Kreitzburg, 1345 Arch street; James Johnston, 1721 Ludlow street, are figuring.

Store Building (alt.), 21-23 South Third street, Philadelphia. Architect, Conrad F. Neff, Heed Building, Philadelphia. Owner, Mrs. Frost, care of architect. Brick, 3 and 1 stories, slag roof, steam heating, gas lighting, pine and cement floors. Architect taking revised bids, due February 24th. John A. Codori, 1235 Arch street; Smith-Hardican Co., 1606 Cherry street; Tuve Esbriornson, 1700 North Sixtieth street, and Morris Sobel, 903 Cherry street, are figuring.

Paint and Oil House, Chester, Pa. Architect, private plans. Owners, Sun Ship Building Co., Finance Building, Philadelphia. Brick and concrete, 1 story, 65x35 feet, slag roof, concrete floors, metal lath, fire doors. Owners taking bids, due as soon as possible. Wm. Provost, Jr., Chester, Pa.; Armstrong & Wiley, Twenty-first and Conlyn streets; John N. Gill & Co., Heed Building; H. E. Baton, Twelfth and Sansom streets; W. W. Lindsay & Co., Harrison Building; Barclay White & Co., 1713 Sansom street, Philadelphia, are figuring.

Joiner and Carpenter Shop, Chester, Pa. Architect, private plans. Owners, Sun Ship Building Co., Finance Building, Philadelphia. Frame and timber, 1 story, 100x270 feet, slag roof, cement floors, rolled steel sash, metal skylights. Owners taking bids, due as soon as possible. Wm. Provost, Jr., Chester, Pa.; Armstrong & Wiley, Twenty-first and Conlyn streets; John N. Gill & Co., Heed Building; H. E. Baton, Twelfth and Sansom streets; W. W. Lindsay & Co., Harrison Building, and Barclay White & Co., 1713 Sansom street, Philadelphia, are figuring.

Automobile, Wagon and Implement Storage Building, Andalusia, Pa. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Henry P. Michell Seed Co., 513 Market street, Philadelphia. Frame, 1 story, 75x25 feet, flexible roof and walls, concrete work. Plans about completed. Will take bids in one week.

served. Contract awarded to Thomas J. Carberry, Heed Building.

Store, Residence and Garage, Broad street and Redro avenue. Architects, Folsom and Stanton, 1328 Walnut street. Owner, Dr. S. B. Davis, York road, Oak Lane, Philadelphia. Brick, 3 stories, 23x90 feet, slate roof, parquetry floors, pine, cement and terrazzo, metal lath (hot water heat, plumbing, electric work, tile and marble work reserved). Contract awarded to Fred G. Storek, 3519 North Thirteenth street.

Coal Bin and Concrete Foundation for Dust Separator, Park avenue and Clearfield street, Philadelphia, \$1,850. Architect, private plans. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Lessees, Keystone Elevator and Warehouse Co., on premises. Concrete and steel. Contract awarded to Monaghan & Losse, 3016 Chestnut street, Philadelphia.

Factory, Meadow and Ritten streets, Philadelphia, \$6,500. Architect, private plans. Owners, Charles Eneu Johnson & Co., 500 South Tenth street. Brick and concrete, 1 story, 71x60 feet, slag roof, rolled steel sash. Contract awarded to Franklin Eng. and Const. Co., Bulletin Building.

Service Building (alt. and add.), 660-62 North Broad street, \$5,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Samuel Gorson, 238 North Broad street, Philadelphia. Brick, 2 stories, slag roof, steam heating, electric lighting, metal lath, fire doors, reinforced concrete floors, store fixtures. Contract awarded to Freund Const. Co., Bulletin Building, Philadelphia.

Lumber Shed, northeast corner of Glenwood avenue and Dauphin street, \$20,000. Architect, private plans. Owners, George Nass & Son, Broad and Vine streets, Philadelphia. Steel and concrete, 1 story, 189x106 feet, slag roof. Contract awarded to Stewart Bros., 2526 North Orkney street, Philadelphia.

Park (improvements), Twenty-fourth and Jackson streets, \$10,000. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, George Datsman, Director, Room 113, City Hall, Philadelphia. Consists of cement and asphalt paving, concrete curbs and coping, grading, drainage, etc. Contract awarded to Edw. Fay & Sons, 2 South Mole street, Philadelphia.

Fire Wall, Thirty-sixth and Gray's Ferry road, \$5,000. Architect, private plans. Owners, Barrett Manufacturing Co., on premises. Hollow tile, plaster and steel, rolled steel sash. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Residence, Cliveden and Wissahickon aves., \$15,000. Architect, Andrew V. Borzner, 721 Walnut street, Philadelphia. Owners, Pletcher, McNally & Boas, Broad and Race streets. Hollow tile and stucco, 3 stories, shingle roof, 32x60 feet, wing 12x14 feet, hot water heating, electric lighting, tile work. Contract awarded to George A. Boyd, 5012 Schuyler street.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

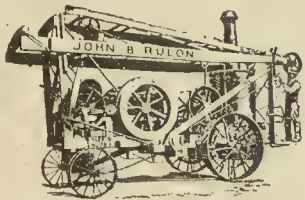
Residence, Westfield avenue, east of Wayne avenue, Germantown, \$15,000. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John R. Rue, 3rd, 109 West Nippon street, Germantown. Brick, hollow tile and plaster, 2½ stories, 30x60 feet, shingle roof, hot water heating, electric lighting, oak floors, tile work. Contract awarded to W. O. Springer, 1624 Latimer street.

Factory, Lenden and Stanton avenue, Philadelphia, \$15,000. Architect, Kern Dodge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets, Germantown. Brick and concrete, 2 stories, 42x113 feet, slag roof, cement and pine floors, metal lath (heating and plumbing reserved). Contract awarded to I. T. Shoemaker, 1324 Walnut street, Philadelphia.

Office and Freight House (add.), Thirtieth and Market streets, \$17,000. Architect, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and frame, 2nd story add., 40x64 feet, and freight shed, 1 story, 145x45 feet, steel, corrugated iron, slag roof, steam heating, electric lighting, plank and composition floors, rolling steel doors. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Rooming House (int. alt.), 1221 Walnut street, \$2,000. Architects, Sheen & Gill, Heed Building, Philadelphia. Owners, Yorke Hotel, care of Robert Bryson, Bryson Hotel, Twelfth and Market streets. Brick and stone, 4 stories, tin roof, pine floors, plastering, millwork (steam heat, electric light and decorating re-

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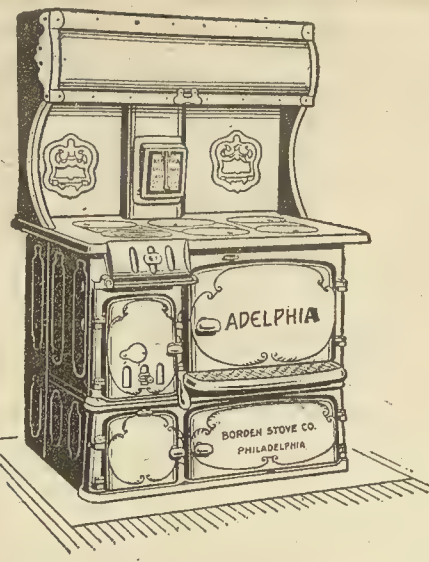
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PENNSYLVANIA Construction News

Residence (alt. and add.), Coatesville, Pa. Architects, Kerns & Carroll, 242 Main street, Coatesville, Pa. Owner, Dr. Stone, Coatesville, Pa. Frame and stucco, 3 stories, slate roof, vapor heating, electric lighting, hardwood floors, tile work. Architect ready for bids.

Bungalow, Tenth and Sterling streets, Coatesville, Pa. Architects, McGinnis & Slawter, National Bank Building, Coatesville, Pa. Owner, John W. DeHaven, Coatesville, Pa. Brick and frame, 1½ stories, 30x46 feet, shingle roof, hot water heating, electric lighting, yellow pine floors, tile work (heating and plumbing reserved). Plans in progress.

Double Residence, Coatesville, Pa., \$6,000. Architects, Maginnis & Slawter, New National Bank Building, Coatesville, Pa. Owner, Lewis Cohen, Coatesville, Pa. Brick, 2½ stories, 30x45 feet, slate roof, hot air heating, yellow pine floors, electric lighting. Owner taking bids. W. J. Elliott, Joseph Elcessor, and Wesley Beard, all of Coatesville, Pa., are figuring.

School (alt. and add.), Coatesville, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education of the School District of Coatesville, Pa. Brick, reinforced concrete and steel, 3 stories and basement, add. 66x84 feet, slate of slag roof, cement and pine floors, hollow tile and plaster blocks, metal lath, dampproofing, ventilators, safety treads (heating, plumbing, electric work, furniture, painting, lighting fixtures separate bids). Architect taking bids, due February 23rd. Eugene Tourison, 1001 Chestnut street; Warren, Moore & Co., Commercial Trust Building; W. J. Elliott, Coatesville, Pa.; W. K. Thorne, Coatesville, Pa., and Alex. Chambley, 243 South Tenth street, Philadelphia, are figuring.

Residence (alt.), Jenkintown, Pa. Architect, Albert F. Schenk, Real Estate Trust Building, Philadelphia. Owner, G. Y. Clement, Jenkintown, Pa. Brick and plaster, 2½ stories, hardwood floors, tile work (plumbing and electric work reserved). Owner taking bids. W. John Stevens, Inc., Wyncote, Pa., is figuring.

Apartment House, Athens avenue, Ardmore,

Pa. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Walter Bassett Smith, 2135 North Sixty-third street, Philadelphia. Brick and terra cotta, 3 stories, 40 feet and 60x87 feet, slag roof, vapor vacuum heat, electric light, hardwood floors, tile work. Plans completed. Owner ready for sub-bids.

Dye House and Quilling Room, Clifton Heights, Pa. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Caledonia Worsted Mills, Clifton Heights, Pa. Brick (slow burning), 2 stories, 40x80 feet, slag roof. Plans in progress.

Residence and Garage, Welsh and Pine Roads, Bethayres, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Dr. William Sutch, 2638 North Fifth street, Philadelphia. Brick, hollow tile and plaster, 2½ stories, 45x29 feet, slate and tin roof, cement and oak floors, electric lighting, tile work; garage, 1 story, 23x16 feet. Architect taking bids, due February 27th. Specht & Sperry, Heed Building; Joseph Ashby, Second street pike, Fox Chase; Frank Heston, Churchville, Pa., and Herbert Weiss, Bustleton, Pa., are figuring.

School, Montgomery and Penn avenues, Wynnewood, Pa. Architects, Brickie & Hastings, 1713 Sansom street, Philadelphia. Owners, Montgomery School, care of Rev. Gibson Bell, on premises. Stone, 2 stories and basement. Preliminary plans completed.

School, Drexel Hill, Pa. Architect, George I. Lovatt, 418 Walnut street, Philadelphia. Owners, St. Andrew's R. C. Church, Drexel Hill, Pa. Stone, 3 stories, slate roof, steam heating, electric lighting. Architect taking bids, due February 26th at noon. Joseph P. Collins, Drexel Hill, Pa.; Edw. Fay & Son, 2 South Mole street; John McShain, 1610 North street; Wm. J. McShane, 417 South Thirteenth street; Chas. McCaul Co., 1713 Sansom street, and Thos. W. Manley, Lansdowne, Pa., are figuring.

Passenger and Freight Station, Douglasville, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Brick, frame and

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stucco, 1 story, 73x29 feet, tile and tin roof, maple and pine floors. Owners taking bids, due February 23rd. Metzger & Fisher, Denckla Building; H. E. Batton, Twelfth and Sansom street; Hogg Const. Co., 1634 Sansom street, and E. A. Havens & Co., 845 North Nineteenth street; Mitchell Bros., 2125 Race street; Charles McCaul Co., 1713 Sansom street, are figuring.

Residence, Glenn Road, Ardmore, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Springer H. Moore, 1631 Arch street, Philadelphia. Hollow tile and plaster, 2½ stories, 26x48 feet, shingle roof, vapor heating, electric lighting, oak floors, tile work. Architects taking bids, due February 26th. Metzger & Fisher, Denckla Building; Frahm-Campion Co., Heed Building; James H. Wells, Heed Building; E. J. Hedden, Finance Building; Gray Bros., Rosemont, Pa.; J. W. Worrlow, Media, Pa., are figuring.

House of Detention, Sixth and Lehigh sts., Easton, Pa. Architect, J. J. Weitzenfeld, First National Bank Building, Easton, Pa. Owners, County Com. of Northampton, Easton, Pa. Brick, 2½ stories, 29x45 feet, slate roof, vapor heating, electric lighting, metal lath, concrete and wood floors. Plans about completed. Owners will advertise for bids this week.

Pumping Station, Easton, Pa., \$4,000. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owners, Lehigh Water Co., Easton, Pa. Brick, 1 story, 30x20 feet, slag roof, hot water heating, electric lighting, concrete floors. Plans in progress.

Bungalow, Easton, Pa., \$5,000. Architect, A. D. Chidsey, Drake Building, Easton, Pa. Owner, J. L. Stackhouse, Easton, Pa. Hollow tile and stucco, 1½ stories, 30x40 feet, slate roof, hot air heating, electric lighting, yellow pine floors, hollow tile. Plans in progress.

Residence, Wayne avenue, Easton, Pa., \$10,000. Architect, A. D. Chidsey, Drake Building, Easton, Pa. Owner, S. Roland Hall, Wayne avenue, Easton, Pa. Frame, 2½ stories, 40x30 feet, slate roof, electric lighting, hardwood and yellow pine floors, tile and marble work. Plans in progress.

Factory Building (add.), Allentown, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, International Motor Co., Allentown, Pa. Brick, concrete and steel, 1 and 2 stories, 200x45 feet, composition roof, steam heating, electric light-

ing, metal sash (sprinklers, elevator and heating reserved). Owners taking bids.

Residences (4), Hill Top, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, F. F. Speck, Bethlehem, Pa. Brick, hollow tile and stucco, 2 and 2½ stories, 26x50 feet, slate roof, hot water heating, electric lighting, yellow pine floors, hollow tile, tile and marble work. Plans in progress. Owner will build.

Garage, Fifth and Broad streets, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Allen Motor Co., care of architect. Brick, 1 story, 50x150 feet, slag roof, electric lighting, concrete floors. Revised plans in progress.

Bath House, Allentown, Pa. Architect, Robert E. Ochs, Myers Building, Bethlehem, Pa. Owners, Allentown Land Co., Allentown, Pa. Frame and stucco, 2 stories, 45x170 feet, slag roof, electric lighting, yellow pine floors. Plans in progress.

Residence (alt. and add.), Bryn Mawr, Pa. Architect, Louis H. Rush, 130 South Fifteenth street, Philadelphia. Owner, A. E. McVitty, 303 Vine street, Philadelphia. Brick, 2-story addition, 41x22 feet and 12x22 feet, tile and slag roof, oak and pine floors, waterproofing, tile work, weather strips (heating, plumbing, electric work, fixtures and cabinet work reserved). Architect has received bids.

Boiler House, Marcus Hook, Pa. Architect, private plans. Owners, The Barret Co. (Congoleum Co.), Thirty-sixth and Gray's Ferry road. Reinforced concrete, brick and steel, 1 story, 51x82 feet, Barret roof, concrete and maple floors, rolled steel sash, skylights, rolling steel doors, metal window guards. Owners have received bids.

Residence, Broad street, West Bethlehem, Pa. Architect, J. J. Weitzenfeld, First National Bank Building, Easton, Pa. Owner, Wm. Getz, North Tenth street, Easton, Pa. Brick, 2½ stories, 28x35 feet, slate roof, yellow pine floors, electric lighting. Plans in progress.

Double Houses (4), Bethlehem, Pa., \$3,750. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, A. Weiner, Broad street, Bethlehem, Pa. Brick and hollow tile, 2½ stories, 16x50 feet, slate roof, hot water heating, electric lighting, yellow pine floors, hollow tile. Owner taking bids.

Apartment Building. Stores and Garage, Bethlehem, Pa., \$22,000. Architect, John W. Reilly, Buckley Building, Allentown, Pa. Owner's name withheld. Brick and hollow

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tile, 3 stories, slag and asphalt roof, hot water heating, electric lighting, metal lath, metal ceilings, fire escape, gasoline storage system, hollow tile. Plans in progress.

Residence, Bethlehem, Pa. Architect, A. P. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, Victor Tice, Bethlehem, Pa. Brick, 2½ stories, 37x38 feet, asbestos shingle roof, hot water heating, electric lighting, hardwood floors. Plans in progress. Owner will take bids in about one week.

Bungalow, Bethlehem, Pa. Architect, E. R. Bittling, Wilber Trust Building, South Bethlehem, Pa. Owner, Joseph Craig, Bethlehem, Pa. Brick, 1 story, 25x50 feet, hot water heating. Plans in progress.

Residence, Allentown, Pa., \$5,500. Architect, John M. Reilly, Buckley Building, Allentown, Pa. Owner's name withheld. Brick, 2½ stories, 34x45 feet, slate roof, hot water heating, gas and electric lighting, yellow pine floors. Plans in progress.

Residence, Wayne avenue, Easton, Pa. Architect, George A. Morganstein, Easton, Pa. Owner, H. H. Garis, Wayne avenue, Easton, Pa. Brick, 2½ stories, 44x27 feet, slate roof, hot air heating, electric lighting, hardwood floors, tile work. Plans in progress.

Residence (alt. and add.), Radnor, Pa., \$15,000. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Mrs. Albert B. Kelley, St. Davids, Pa. Stone and timber, 2½ stories, shingle roof, electric lighting, waterproofing and dampproofing, pine and cement floors. Architects have received bids.

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Pa. Engineer, B. H. Davis, 17 Battery Place, New York City. Owners, Montgomery County Commissioners. Concrete and steel. Owners taking bids, due February 23rd at 11 A. M.

Elevator Tower and Connecting Corridor, Lancaster, Pa. Architect, S. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Stehli Silk Corp., 104 East Twenty-fifth st., New York City. Brick, stone and concrete, 3 and 1 stories, 9x52 feet and 12x31 feet, slag roof, cement and maple floors, metal lath, hollow metal and rolled steel sash, fire doors, safety treads. Architect has received bids.

Machine Shop (Test Cutting), Nicetown, Pa. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Brick, steel and corrugated iron on concrete footings, 36 feet high, 1 story, 79x65 feet, slag roof, cement floors, rolled steel sash. Owners have received bids.

Parsonage, Easton, Pa. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owners, Lafayette College, Easton, Pa. Brick, 2½ stories, 41x32 feet

and 12x17 feet, shingle roof, steam heating, electric lighting, metal lath, cement and oak floors, tile and marble work. Architects taking bids, due March 3rd. F. L. Hoover & Sons, 1233 Cherry street; Asa P. Smith & Son, Easton National Bank Building, Easton, and A. A. Bechtel, Northampton National Bank Building, Easton, are figuring.

Residence and Garage, Fifty-third street, north of Wynnefield avenue, Wynnefield, Pa., \$20,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Wm. Sharpless, 147 North Tenth street, Philadelphia. Stone, 2½ stories, 39x36 feet and 19x12 feet; garage, 1 story, 21x21 feet, slate roof, hot water heating, electric lighting, oak and pine floors, tile work. Architect taking bids, due February 26th. John T. Wolff, 4327 Pennsgrove street; Monaghan & Losse, Inc., 3016 Chestnut street; Samuel F. McNeil, 953 East Chelton avenue; E. J. Kreitzburg, 1345 Arch street; John V. Speth & Co., 1714 Sansom street; J. Paul Emrey, Wynnefield, Pa., and E. Oscar Lobb, Llanerch, Pa., are figuring.

PENNSYLVANIA

Contracts Awarded

Garage, Coatesville, Pa., \$20,000. Architects, Kerns & Carroll, 242 Main street, Coatesville, Pa. Owners, N. B. Slack & Son, West Chester, Pa. Brick, 1 story, 40x100 feet, and 53x150 feet, slag roof, vapor heating, electric lighting, metal sash, concrete floors. Contract awarded to Daniel Sullivan, 242 Main street, Coatesville, Pa.

Garage, Merion, Pa., \$7,500. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner's name withheld. Stone, 1 story, 23x50 feet, slate roof, electric lighting, steam heating, cement work. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Garage, Seventh and Market streets, Chester, Pa., \$40,000. Architect, private plans. Owners, Gallagher Bros., 7 West Seventh st., Chester, Pa. Brick and concrete, 3 stories, 100x75 feet, slag roof, steam heat, electric light, cement and pine floors, gasoline storage system, elevator. Contract for mason work awarded to Turner Concrete Steel Co., 1713 Sansom street, Philadelphia; carpenter work to Flounders Bros., Media, Pa.

Residence, Narberth, Pa., \$6,000. Architect and owner, Victor D. Abel, 139 South Fifteenth street, Philadelphia. Stone and terra cotta, 2½ stories, 24x35 feet, slate roof, hot water heating, electric lighting, hardwood

floors. Contract awarded to W. D. Smedley, Narberth, Pa.

Store Building (alt. and add.), Allentown, Pa. Architect, Robert E. Ochs, Myers Building, Bethlehem, Pa. Owner, Frank Heinz, Allentown, Pa. Brick, 1 story, 28x85 feet, slag roof, yellow pine floors, electric lighting, metal ceiling, terrazzo work. Contract awarded to George Hardner, Allentown, Pa.

Department Store (add.), Easton, Pa., \$60,000. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owner, Wm. Lauback, Easton, Pa. Brick and concrete, 7 stories, 50x70 feet, slag and concrete roof, concrete and wood floors, steam heating, electric lighting, metal lath, sprinklers, tile and marble work. Contract awarded to C. D. Stewart Const. Co., Easton, Pa.

Residence, Elm and Swede streets, Norristown, Pa. Architect, private plans. Owner, Oliver F. Lenhardt, Historical Building, Norristown, Pa. Brick and plaster, 2½ stories, 34x50 feet, green slate roof, hot water heating, electric lighting, hardwood floors, tile and marble work (lighting reserved). Contract awarded to Frank R. Heavner, Norristown, Pa.

Barn Group, Garage and Chauffeur's Cottage, Bryn Mawr, Pa., \$50,000. Architects, Brockie & Hastings, 1713 Sansom street, Phil-

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Philadelphia. Owner, Edw. C. Dale, 1215 Spruce street, Philadelphia. Stone and plaster, 2 and 1 stories, 69x31 feet, 59x23 feet and 69x23 feet. Brick and hollow tile, 1½ stories and 1 story and basement, 30x85 feet and 18x16 feet, slate and slag roofs, hot water heating, electric lighting, metal lath, waterproofing, cork brick, cement, maple and pine floors (grading, screens and lighting fixtures reserved). Contract awarded to J. S. Cornell & Sons, Land Title Building, who are taking sub-bids.

Bridge No. 2 (alt.), East of Southampton, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Stone, reinforced concrete and timber (waterproofing reserved). Contract awarded to F. H. Leonard, Wayne, Pa. Waterproofing to James Kelly, Bulletin Building, Philadelphia.

Bridge, east of Harpers, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel. Contract awarded to Cantrell Const. Co., Twenty-second and Sedgley avenue, Philadelphia.

Storehouse, Fort Mifflin, Pa., \$31,887. Architect, private plans. Owners, United States Government, War Department, Washington, D. C. Brick, concrete and steel, 1 story, 50x200 feet, asbestos roof, concrete floors, rolled steel sash, dampproofing, fire doors. Contract awarded to Edw. Fay & Son, 2 South Mole street, Philadelphia.

Miscellaneous Construction News

Residence, Douglas Manor, Long Island, N. Y. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Mrs. Sallie Anthony, Douglaston, Long Island, N. Y. Hollow tile and plaster, 2½ stories, 25x50 feet, slate roof, hot water heating, electric lighting, tile work (plumbing reserved). Architects taking bids, due February 22nd. W. J. Hamilton, Douglaston, L. I., N. Y.; Robert Nash & Co., Flushing, L. I.; J. C. Cadoo, Flushing, L. I.; Josiah Reed, Flushing, L. I.; Gaston Cooper, Flushing, L. I., and John Jossinsky, Bayside, L. I., N. Y., are figuring.

Motion Picture Theatre (alt. and add.), 586-90 Seventh avenue, New York City. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, C. Wm. Funk, 730 Lincoln Drive, Philadelphia. Brick, 2 stories, 40x100 feet, slag roof, steam heating, cement floors, tile and marble work. Plans about completed. Architects will take bids in a few days.

Bank Building, Wilmington, Del. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owner's name withheld. Brick and marble, 2 stories, 17x80 feet, slag roof, electric lighting, terrazzo work. Plans in progress. Too early for details.

Passenger Terminal, Concourse, Baggage Building and Subway, Jacksonville, Fla. Architect, Kenneth M. Murchison, 101 Park avenue, New York City. Owners, Jackson-

ville Terminal Co., Jacksonville, Fla. Brick, stone, steel, hollow tile, reinforced concrete, slag, asbestos, slate and tile roof, metal lath. Passenger station, 1 story and mezzanine, 361x78 feet; baggage building, 2 stories, 344x118 feet, rolled steel sash, waterproofing and dampproofing, fire doors, safety treads, tile and marble work, composition, cork and cement floors, metal skylights, dumbwaiters, terrazzo work (heating, plumbing, electric work and elevator reserved). Owners taking bids, due March 2nd. Irwin & Leighton, 126 North Twelfth street, are figuring.

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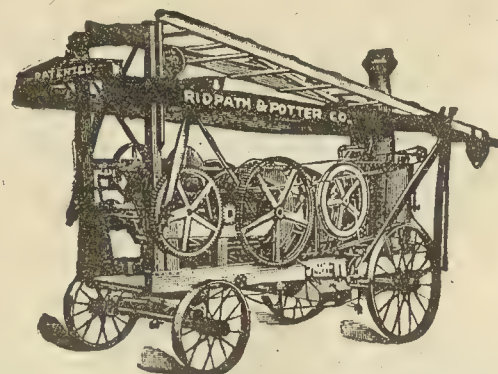
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NEW JERSEY Construction News

Store (alt. and add.), 802 Broadway, Camden, N. J., \$5,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Friant Music Co., care of architects. Brick, 3 stories, 17x80 feet, slag roof (hot water heating and plumbing reserved), combination lighting, metal lath, gum floors, store fixtures, tile and marble work. Sketches completed.

Store Building (alt. and add.), 1103-05 Broadway, Camden, N. J. Architect, Thomas Stephens, Masonic Building, Camden, N. J. Owner, Mr. L. M. Nelson, on premises. Brick, terra cotta, 3 stories and basement, 34x104 feet, slag roof, steam heat, electric lighting, oak floors (heat and 2 elevators reserved), store fixtures. Architect taking bids, due about March 1st. The following are figuring: Fred Fries Co., Haddon Heights, N. J.; C. L. Stewart, West Collingswood, N. J.; Di Medio Bros., 407 Division street; Frank Turner, Jas. W. Draper, 436 Haddon avenue; Tony Miller, Thirty-eighth and Westfield streets; John J. Walsh, 525 Clinton street; Wm. Wrixford, 525 Market street; Benj. F. Stant, 1175 Haddon avenue, and Harry Foulkes, all of Camden, N. J.

Garage, 518 West street, Camden, N. J., \$2,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Wm. C. Davis, care of architects. Brick, 1 story, 30x100 feet, slag roof, cement floors, hollow tile, electric lighting, ventilators. Architects have received bids.

School (add.), Atlantic City, N. J. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owners, Board of Education, Atlantic City, N. J. Brick and concrete, 3 stories, 35x90 feet, slag roof, steam heating, electric lighting, metal lath, yellow pine floors. Plans in progress.

Residence, Ventnor, N. J. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owner, C. M. Kowny, Atlantic City, N. J. Brick and stucco, 2½ stories, 26x62 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Apartment House, Atlantic City, N. J., \$48,000. Architect, J. R. Ogden, South South Carolina avenue, Atlantic City. Owner's name withheld. Brick and stone, 4 stories, 130x50 feet, slag roof, hot water heating, electric lighting, metal lath, metal ceiling, tile and marble work, elevator, tile floors. Architect ready for sub-bids on all lines next week.

Fire House, Indiana avenue, Atlantic City, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, City of Atlantic City, City Hall. Brick, 2 stories,

30x110 feet, tile roof, cement floors, tile and marble work, metal lockers. Plans in progress.

Church and Sunday School, North Carolina and Pacific avenues, Atlantic City, N. J. Architects, J. V. Mathis and Mr. Adams, Guarantee Trust Building. Owners, First Baptist Church, on premises. Brick and terra cotta, 1 and 3 stories, 57x150 feet, slag roof, yellow pine floors, combination lighting, waterproofing, metal lockers, tile and marble work, terrazzo work. Plans in progress.

Apartment House, St. James Place, Atlantic City, N. J. Architect, J. R. Ogden, South South Carolina avenue, Atlantic City, N. J. Owner's name withheld. Brick, 3 stories, 22x70 feet, slag roof, hot water heating, electric lighting, metal lath, yellow pine floors, leaded glass, tile and marble work. Taylor & Son, Guarantee Trust Building, Atlantic City, taking sub-bids.

Store (alt. and add.), 2408 Atlantic avenue, Atlantic City. Architect, B. Ireland, Guarantee Trust Building, Atlantic City. Owner, Ralph Johnson, on premises. Brick, 1 story, electric lighting, hardwood floors, tile and marble work. Architect taking bids. E. Ellsworth Smith, H. G. Scull, P. G. Hannum, and J. Connover, all of Atlantic City, N. J., are figuring.

Connecting Bridge, Front and Market sts., Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Plaster on steel, slag roof, reinforced concrete floors, metal lath, rolling steel shutters. Architects have received bids.

Warehouse, Second and Federal streets, Camden, N. J. Architects, Pouckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Crane Co., 245 Master street, Philadelphia. Brick, steel and concrete, 2 stories and basement, 40x125 feet, slag roof, concrete floors, ventilators (heating, plumbing and electric work reserved). Architects taking bids, due February 23rd. Philip Haibach Const. Co., Twenty-sixth and Thompson sts.; F. E. Wallace, 1220 Chancellor street; E. R. Hall & Bro., 34 South Seventeenth street; Barclay White & Co., 1713 Sansom street; H. E. Grau Co., 1707 Sansom street, and John V. Speth Co., 1714 Sansom street, are figuring.

Stores (2) and Apartment, Vineland, N. J., \$10,000. Architects, Fred L. Hill & Raymond A. Walls, 738 Real Estate Trust Building, Philadelphia. Owner, G. B. D'Ippolito, Vineland, N. J. Brick, 2 stories, 42x60 feet, tile roof, heating not decided, hardwood and composition floors, electric lighting, tile work. Plans in progress. Architects will take bids

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in about two weeks.

Manufacturing Building, 537-49 South Second street, Camden, N. J. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Strandwitz & Scott, 32 Penn street, Camden, N. J. Brick, steel and concrete, 2 stories, 150x85 feet, and 1 story, 30x27 feet, slag roof, composition, gum, cement and wood block floors, electric lighting, rolled steel sash, waterproofing, fire doors, safety treads, metal window guards, metal lockers, dumbwaiter (heating, plumbing, electric work and elevator reserved). Architects

taking bids, due February 23rd. (Note extension). The following are figuring: Wark-Yardley Co., 1737 Filbert street; F. W. Mark Const. Co., Inc., Finance Building; Barclay White Co., 1713 Sansom street; Smith-Hardican Co., Driscoll Co., Stock Exchange Building; Wills-Ludwick Co., 34 South Seventeenth street; Metzger & Fisher, Denckla Building, Philadelphia; J. S. Rogers Co., Moorestown, N. J.; E. F. Turner Const. Co., 828 Broadway, and George Bachman, 19 North Thirtieth st., Camden, N. J.

NEW JERSEY

Contracts Awarded

School (add.), Woodlynne, N. J., \$14,000. Architects, Moffett & Stewart, Inc., 30 N. Third street, Camden, N. J. Owners, Board of Education, Woodlynne, N. J. Brick, 2 stories and basement, 60x38 feet, slag roof, steam heating, combination lighting, metal lath, ventilators, safety treads, gum floors, hollow tile. Contract awarded to Peterson Const. Co., Clayton, N. J.

Theatre, Pennsgrove, N. J., \$20,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Broad Street Amusement Co., Pennsgrove, N. J. Brick, stone, and hollow tile, 2 stories, 60x120 feet, slag roof (steam heating, electric lighting re-

served), metal lath, waterproofing, fire doors, ventilators, safety treads, tile and marble work, cement and composition floors, hollow tile, terrazzo work. Contract awarded to Peterson Const. Co., Clayton, N. J.

School (add.), Vineland, N. J., \$34,000. Architect, Paul A. Davis, 1713 Sansom street, Philadelphia. Owners, Landis Township School Board, care of W. S. Mitchell, Vineland, N. J. Brick, 2 stories, 34x60 feet and additional walls, 70x60 feet, slag roof, iron stairs, concrete floors, roof ventilators (heating, plumbing and electric work separate bids). Contract awarded to J. D. Pasquale, Vineland, N. J.

MARYLAND

Construction News

School (alts.), Linden avenue and Koenig street, Baltimore, Md. Architect, private plans. Owners, City of Baltimore, Md., City Hall, Baltimore. Stone, cabinet work, metal ceilings, plastering, painting and heating. Plans may be obtained from Building Inspector, City Hall, Baltimore. Bids due February 28th.

School (add.), Eastern avenue and Linwood street, Baltimore, Md., \$100,000. Architect, A. C. Leach, 2900 Clifton avenue, Baltimore. Owners, City of Baltimore, James H. Preston, Mayor, City Hall. Brick, 3 stories, slate or slag roof, steam heating, electric lighting. Plans about completed.

Church, Twenty-fifth street, Baltimore. Architect, G. W. Kramer, 1 Madison avenue, New York City. Owners, Twenty-fifth Street Christian Church, care of Rev. B. H. Melton,

407 Bretton Place, Guilford, Md.

Dwelling, Guilford, Md., \$35,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, William Whitridge, 212 Keyser Building, Baltimore. Brick, 2½ stories, slate roof, electric lighting, reinforced concrete work, fireproofing, dampproofing, stucco, plaster, tile and terrazzo work, hardwood floors, dumbwaiters, painting and plumbing. Plans in progress. Ready for bids in about ten days.

Residence and Garage, Guilford, Md., \$20,000. Architect, L. H. Fowler, 347 North Charles street, Baltimore. Owner, E. E. Gibbs, care of Southern Can Co., 717 South Wolfe street, Baltimore. Brick, 2½ stories. Plans in progress. Too early for details.

Garage, Office and Shop, Columbia avenue, near Bayard street, Baltimore. Architect,

GRAHAM-CAMPION CO.

Building Construction

That Satisfies Architects and Owners

1215 FILBERT ST., PHILADELPHIA

private plans. Owner, Wm. Sauer, care of Monitor Steam and Hot Water Heating Co., 212 West Fayette street, Baltimore, Md. Brick, 1 story, 22x175 feet and 90x175 feet, corrugated iron roof, hot water heating, electric lighting, concrete floor. Owner will take bids shortly.

Office Building, 110 East Lexington street, Baltimore, Md. Architect, private plans. Owner, Harry B. Wolf, 204 Courtland street, Baltimore, Md. Marble and brick, 2 or 3 stories, slag roof, electric lighting, concrete work, dampproofing, plastering, tile work, plumbing. Plans in progress. Fred Wright, 204 Courtland street, Baltimore, will build.

Apartment House, Fortieth street and Stoney Run Lane, Baltimore, Md., \$100,000. Architect, Clyde N. Friz, Munsey Building, Baltimore. Owners, The Tuscany Apartment Co., Baltimore, Md. Brick, concrete and steel, 4 stories, 40x180 feet, stone and terra cotta trim, tile and slag roof, steam or vapor heat, gas and electric light, fire escapes, skylights, ventilators, fireproofing, dampproofing, hollow tile, plastering, painting, plumbing, interior tile, marble, slate and terrazzo work, hardwood floors, dumbwaiters. Architect taking sub-bids on all lines.

Church (add.), Old York road and Thirty-fourth street, Baltimore, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore. Owners, Waverley Presbyterian Church, on premises. Brick, 2 stories, slate roof, steam heat, electric light, steel and iron work, plastering, tile work. Architect taking bids, due February 26th. The following are figuring: Cowan Building Co., 106 West Madison street; C. C. Watts, 407 West Twenty-fifth street; Consolidated Eng. Co., Calvert Building; Thos. L. Jones & Sons, 418 West Saratoga street; H. H. Brown, 212 lay street; Price Concrete Const. Co., Maryland Trust Building; John Waters Co., 23 East Center street; Cogswell-Koether Co., 406 Park avenue; R. B. Mason, 308 West Madison street; Henry A. Knott, 1340 North Eden street, Baltimore, Md.

Residences (168), Twelfth and Fifteenth streets, Baltimore, Md. Architect, private plans. Owner, John T. Donohue, 705 South Potomac street, Baltimore, Md. Brick, 2 stories, slag roof, hot air heating, electric lighting. Owner taking sub-bids on all lines.

Garage, 135 West Mount Royal avenue, Baltimore, Md. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owners, The Tire Co. of Baltimore. Brick, 1 story, cement floors, slag roof, steam heating, electric lighting, skylights, painting and plumbing. Architect taking bids, due February 23. The following are figuring: H. S. Rippel, 7 Clay street; John Busick, 2811 Rayner street; C. H. Horn, 1031 Myrtle avenue, and Clarence E. Stubbs, 548 Equitable Building, all of Baltimore, Md.

Maryland

Contracts Awarded

Bungalow, Mt. Washington, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore. Owner, Daniel H. Flynn, care of W. W. Lan-

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Tasker Street Wharf, Delaware River, Philadelphia.

ahan & Co., Mt. Washington, Md. Stone foundation, frame, 1½ stories, wood shingle or slate roof, hot water heating, electric lighting, tile work, hardwood floors. Contract awarded to A. Knell, Jr., Law Building, Baltimore, Md.

Garage, Guilford, Md. Architects, Owens & Sisco, Continental Building, Baltimore. Owner, E. B. Hunting, Calvert Building, Baltimore. Brick, 1 story, 25x30 feet, slate roof, concrete work (heating and electric work reserved). Contract awarded to E. L. Walsh, 22 Clay street, Baltimore.

Hotel, Havre de Grace, Md. Architect, Theo. W. Pietsch, American Building, Baltimore. Owners, Susquehanna Inn Co., Inc., care of architect. Brick, frame and stucco, 3 stories, 63x128 feet, slate roof, skylights, ventilators, reinforced concrete work, plaster-

ing, tile work, marble and terrazzo work, dumbwaiters (plumbing, heating, electric work and lighting fixtures reserved). Contract awarded to H. D. Watts Co., Garrett Building, Baltimore, Md.

Store Building, 126 North Eutaw street, Baltimore, Md. Architect, private plans. Owner, Wm. J. Santer, 1316 Fidelity Building, Baltimore, Md. Brick, 2 stories, 13x109 feet, slag roof, steam heating, electric lighting. Contract awarded to Thos. S. Jones & Son, 410 West Saratoga street, Baltimore.

Office Building and Stable, 1121-23 Linden avenue, Baltimore, Md., \$18,000. Architect, private plans. Owners, Western Maryland Dairy, Rivin D. Baxter, president, 1117 Linden avenue, Baltimore, Md. Brick, 2 stories, 39x148 feet, slag roof, electric lighting. Contract awarded to G. Walter Tovell, Eutaw and McCulloh streets, Baltimore.

Craven (O), on premises. Max Sussman (C), 600 North Franklin street. Alterations.

Garage (add.), 2435 West Gordon street, \$1,000. George L. Rayne (O), 2345 North Twenty-fifth street. J. G. T. Miller (C), 2315 West Clearfield street. Brick addition, 1 story, 14x16 feet, alterations.

Dwelling, 905 Christian street, \$500. J. Callabrano (O), on premises. A. Generaso (C), 1324 South Tenth street. Interior alterations.

Store Building, northeast corner of Thirtieth and Walnut streets, \$350. Estate of E. A. Thomson (O), care of Mears & Brown, 207 South Fifteenth street. George E. Sladen & Co. (C), 1222 Clover street. Repairs.

Building, 2035 Washington avenue, \$1,050. Merchant & Evans (O), 2035 Washington avenue. Lyster Sheet Metal Co. (C), 1218 Filbert street. Install metal windows.

Store and dwelling Eighteenth and Morris streets, \$985. Samuel Goldman (O), 2024 North Eighteenth street. Shefman Bros. (C), 1734 North Seventh street. Double bulks.

Store and dwelling, 4226 Germantown avenue, \$400. Harry Adler (O), on premises. Philip Lavan (C), 718 Snyder avenue. Flush bulks.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Dwellings (2), 204 and 210 Cliveden avenue, \$20,000. James N. Mitchell (O and C), Forty-sixth and Market streets. Brick, 3 stories, 37x25 feet, slate roof, hot water heating.

Plant, Thirty-sixth and Gray's Ferry road, \$7,500. The Barret Co. (O), on premises. A. L. Carhart (C), 1328 Chestnut street. Steel, 1 story, 48x80 feet.

Garage, 2128 South Eighth street, \$600. Joseph Stanitz (O), 814 Winton street. M. Lesse (C), 816 Winton street. Brick, 1 story, 12x16 feet, slag roof.

Store and dwelling, 330 South street, \$3,000. J. Edelstein (O), Fourth and Morris sts. L. Seidman (C), 1324 South Fourth street. Brick, 3 stories, 12x41 feet, slag roof, hot air heating.

Garage, Adams avenue, south of Large street. Wallace Wilson (O), Asylum pike and Large street. William T. Lentz (C), 4715 Penn street. Brick, 1 story, 24x22 feet.

Dwellings (2), Sixty-third and Overbrook avenue, \$13,000. Mrs. John White (O), 202 South Thirty-ninth street. Milton S. Grawl (C), Harrison Building. Brick, 3 stories, 21x14 feet, slag roof, hot water heating.

Alterations and Additions

Store and Dwelling, 801 East Madison st., \$500. D. Gilligan (O), on premises. Morris Silezman (C), 610 Wilder street. Flush bulks.

Cafe and Dwelling, Sixty-second and Walnut streets, \$2,000. Wm. Meenehan (O), Fourth and Vine streets. Wm. Meenehan (C), Fourth and Vine streets. Plumbing, heating and interior alterations.

Dwelling, 5540 Chestnut street, \$425. E. Schuster (O), on premises. I. Shulman (C), 1111 Bainbridge street. Repair front porch.

Boiler House, Eighth and Somerset streets, \$4,000. John & James Dobson, Inc. (O and C), on premises. New boilers.

Dwelling, 660 North Fifteenth street, \$900. Wm. Binder (O), 662 North Fifteenth street. Wm. O'Meara (C), 1432 Dickinson street. Hot water heat.

Store and Dwelling, 717 South Fourth st., \$300. A. Margulies (O), 1411 South Sixth street. M. Brownstein (C), 1013 Jackson st. Repairs.

Shop, 1802 North Wilder street, \$500. J. B. Sherran (O), 1927 Montgomery avenue. S. B. MacDowell (C), 1927 Montgomery avenue. One-story brick addition, 18x36 feet, slag roof.

Storage Building, Tioga and Tulip streets, \$1,000. S. A. Ashman & Son (O), on prem-

ises. Wm. Gruhler Sons (C), 219 High street. Brick, 1 story, 24x43 feet, slag roof.

Dwelling 1819 East Tioga street, \$300. Mr. J. E. Pratt (O and C), 3725 Frankford avenue. Interior alterations.

Dwelling, 319 South Sixth street, \$700. J. Gerson (O), 337 South Sixth street. L. Kaplan (C), 518 Spruce street. Brick addition, third story, 12x14 feet, slag roof.

Store and dwelling, Ella and Clearfield streets, \$380. Catherine McGillin (O), 1312 Drury street. John Conneen (C), Laurel Springs, N. J. Change bulks, repairs.

Office, Island road, south of Elmwood avenue, \$990. P. B. & W. R. R. (O and C), Pennsylvania Building. Fire repairs.

Store and dwelling, Thirty-fifth and Haverford avenue, \$325. Robinson & Crawford (O), 424 North Nineteenth street. James Kane (C). Repairs.

Dwelling, 950 North Fifth street, Philadelphia, \$600. Fred Stein (O), 950 North Fifth street. George Kessler Cont. Co. (C), 931 Drexel Building. Minor alterations.

Store and dwelling, 1929 South Front st., \$350. W. Burdick (O), Thirty-third and Oxford streets. A. Warshamsky (C), 543 North Seventh street. Flush bulks.

Garage, 1436 North Seventh street. J. A.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 10, 1917.—Sealed proposals will be opened in this office at 3 P. M. March 29, 1917, for the construction of the United States post office at Coshocton, Ohio. Drawings and specifications may be obtained from the custodian of the site at Coshocton, Ohio, or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after February 15, 1917. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 7, 1917.—Sealed proposals will be opened in this office at 3 P. M., March 21, 1917, for the construction of the United States post office at Martins Ferry, Ohio. Drawings and specifications may be obtained from the custodian of the site at Martins Ferry, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 19, 1917.—Sealed proposals will be opened in this office at 3 P. M., March 30, 1917, for the construction of the United States post office at Reading, Mass. Drawings and specifications may be obtained from the custodian of the site at Reading, Mass., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

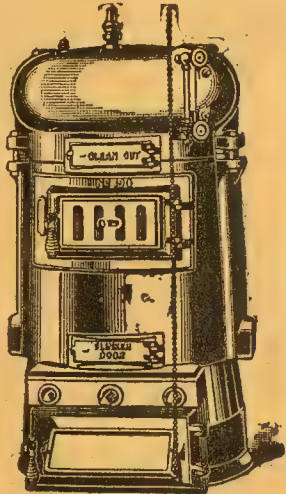
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 Warren-Knight Co.....136 N. 12th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.
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 Chas. H. Robbins.....125 S. 11th st., Phila.
 F. Weber & Co.....1125 Chestnut st., Phila.
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 Commercial Trust Bldg., Phila.
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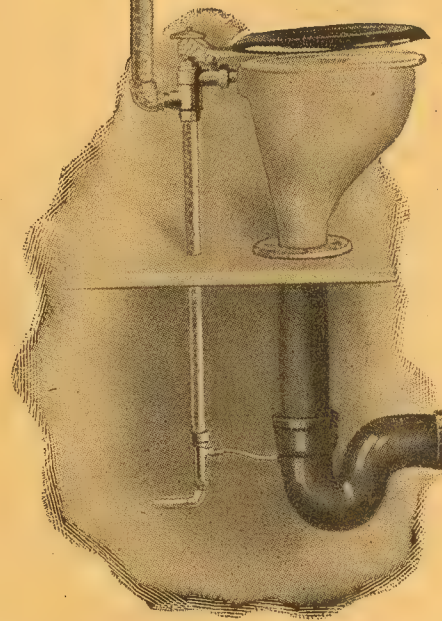
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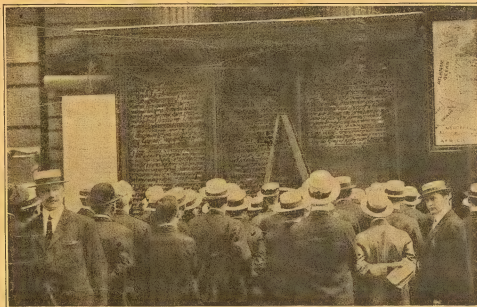
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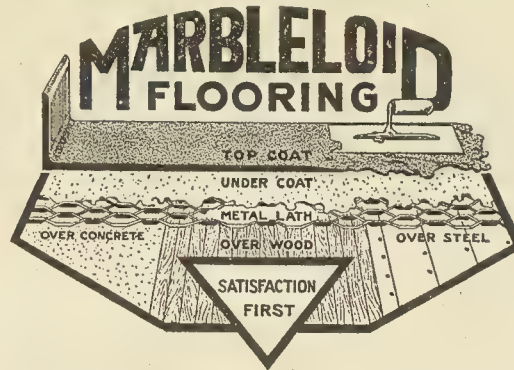


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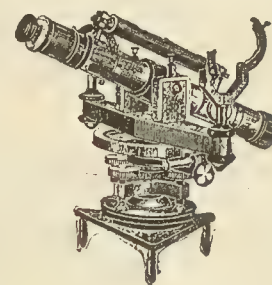
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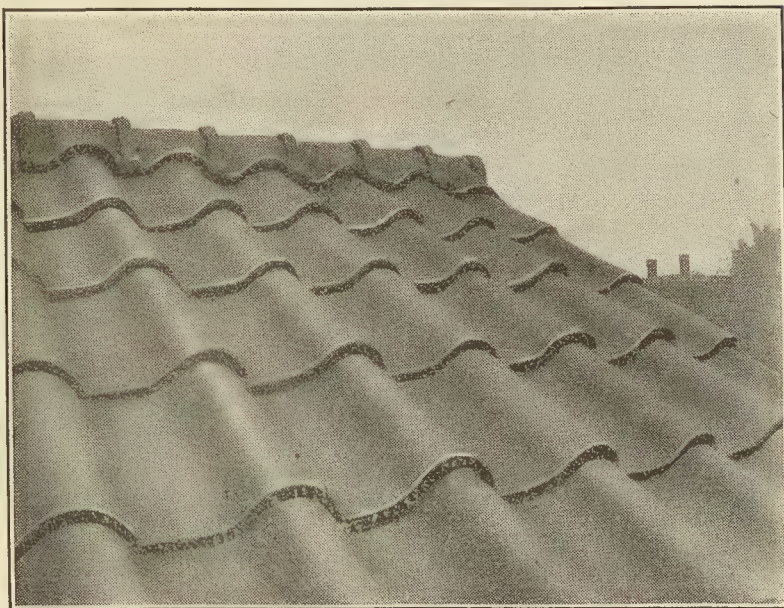
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 9

PHILADELPHIA
February 28, 1917



As The Editor Sees It



THAT old, old question of the lowest bidder and the lowest responsible bidder is up again; this time in connection with a controversy over the awarding of the contract for the pathological laboratory to be erected by the City of Philadelphia at Thirty-fourth and Pine streets.

The views of THE GUIDE on this question have been stated in these columns so often and with such clearness as to leave no room for doubt as to our position.

We have always believed, whether the project in hand be private work or work for the city, in permitting the awarding power to exercise a certain amount of discretion.

If we had, personally, a contract to award involving the erection of a building of any importance we should feel a natural hesitancy about giving the work to be done into the hands of a builder previously concerned with operative or small residence work. On the other hand, we would be, in every sense, favorably disposed to the claims of builders whose previous experience had been of a character to raise the presumption of skill and equipment.

* * *

DISCUSSING this issue recently, one of the local dailies remarked:

"The present system, which calls for the awarding of contracts to the lowest responsible bidder, is too vague and elastic to safeguard either the city or the competitive bidders. On the one hand, it is hardly just and equitable to a contractor to encourage him to submit a bid by providing him with a set of blue prints and finally accepting his bid and bond. This, of course, may mean nothing to the city, but to the contractor it calls for the outlay of at least several hundred dollars; and in the end, if his bid

should be the lowest and then relegated to the class of undesirables, it is adding insult to injury without helping his credit.

"On the other hand, there is no reason why the city should be compelled to award its contracts for the construction of its buildings to contractors who are not fully qualified to do the work. The city should have the same privilege as an individual in so far as its endeavors go to obtain satisfactory and competent contractors for the construction of its buildings.

"Under the present system of bidding a contractor who has never constructed anything except small country houses and made minor alterations and additions to a few schoolhouses is eligible to submit a bid for a city building costing \$250,000 or more. By even the greatest stretch of imagination it is hard to believe that such a contractor is qualified, either with experience or equipment, to give to the city an A1 building.

"The fact that this individual is satisfactorily bonded, honest beyond doubt and willing to do good work is no assurance that the completed building will be an A1 building. If the contractor is not qualified, try as he may, he is unable to perform the work in a first-class manner and should not be allowed to do city work out of his class until his experience and other circumstances warrant it.

"The question boils down to, What shall be done to protect both the city and the contractors regarding estimates on city work?

"The writer suggests that a qualifying system be inaugurated, let a commission be appointed, say by the Master Builders' Association, whose duty will be to classify the contractors according to their qualifications. For instance: Class A to include contractors who are competent to handle work of any size. Class

B, below \$200,000. Class C, below \$100,000. Class D, below \$50,000. From time to time any contractor should have the privilege to apply to the commission for promotion to a higher class, the result of which should be solely dependent upon his qualifications.

"The effect of this or some similar system would not only be a help to the city in getting the best possible buildings for the money expended, but also result in a great benefit to the contractors, inasmuch as the competition would be more equitable."

* * *

WE are not much impressed with the suggestion to have the Master Builders' Exchange, or any other body, grade the builders. This duty, to our way of thinking, may safely be left to the awarding power. Just as the average architect finds it easy to weed out the irresponsible from the responsible bidders on private work, so the Director of the average city department will find it easy to weed out the unequipped element bidding on public work. It is true that this discretionary authority might conceivably lead to the favoring of bidders able to exert political pressure.

But that is a condition whose remedy lies with the public rather than with regulations hampering official action. The problem is a difficult one at best, one that will tax the ingenuity of many minds to uncover the desired solution.

* * *

HOW many of the younger men, aspiring to distinction in architecture, take the trouble to read Ruskin? I am aware that Ruskin is not, infallibly, a safe guide for the architect to follow, and yet there are passages, here and there, in the pages of that grim old master of the written

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word that open up vistas of beauty, thought-compelling and inspiring beyond anything else within the reach of all literature. Take this little gem, for instance, from Ruskin's "Seven Lamps of Architecture":

"And among the first habits that a young architect should learn, is that of thinking in shadow, not looking at a design in its miserable liny skeleton; but conceiving it as it will be when the dawn lights it, and the dusk leaves it; when its stones will be hot, and its crannies cool; when the lizards will bask on the one, and the birds build in the other. Let him design with the sense of cold and heat upon him; let him cut out the shadows, as men dig wells in unwatered plains; and lead along the lights, as a founder does his hot metal; let him keep the full command of both, and see that he knows how they fall, and where they fade. His paper lines and proportions are of no value: all that he has to do must be done by spaces of light and darkness; and his business is to see that the one is broad and bold enough not to be swallowed up by twilight, and the other deep enough not to be dried like a shallow pool by a noon-day sun. . . ."

* * *

AN issue or two back I had occasion to say something in these pages about architectural design considered as mere detail in a composition to be sensed in the mass or as a whole; the premeditated grouping of pictorial qualities keyed to a natural harmony and producing upon the eye of the beholder much the same effect as a beautiful painting or a bit of superb scenery glimpsed through interlacing branches. Have we not here, in this little quotation from Ruskin the same general idea—the same appreciation of that nicely balanced relation which the design should bear to its setting and the group as a whole should bear to the various influences incident thereto—light and shade, vista and proportion, tonal verity and balance?

Ruskin is old-fashioned in the noisy, material world of the present but to the young architect eager to expand the artist soul in him to a sense of the beautiful in his calling I know of nothing in our cold, harsh, grudging English speech fit to hold a candle to him. Let the young practitioner read Ruskin. It may not make him a great architect,—that being a desideratum resting upon technical and other aptitudes peculiar to the individual,—but granted, a fair order of intelligence, moderate technical skill and the zeal of high inspirational ideals, Ruskin should lift the beginner to an appreciation of the beautiful that will, in any event, spare him the stigma of mediocrity.

NARBERTH and Merion are at odds. Merion has a new railroad station that is very much nicer architecturally than the station which Narberth has. And as a result pretty Narberth is "miffed." But let the *Bulletin* tell the story:

"A brisk rivalry in the fields of higher estheticism that now is agitating Merion and Narberth, the desire of each community to make itself a very jewel among suburbs, represents the more cheerful human reactions that persist in these rumbling times of war," says the *Bulletin*. "Merion improved itself so thoroughly that the Pennsylvania Railroad hurried along and saved its own face with a new railroad station of dashing architecture, with post office attachment. Narberth gazed in the mood of anxious inquiry. It, too, has been seeking the higher suburban life. It has built, polished, paved and cleansed. Narberth now demands a new railroad station of architectural aspect none the less dashing than that at Merion. Its spokesmen aren't averse to telling the world that when a fire broke out recently in the Merion Day School the communities of Narberth and Cynwyd sent their fire departments to assuage the blaze and thus exhibited a civic consciousness passing even that which displays itself in fine estates, barbered lawns and self-starting

birds nurtured and fattened in every tree and bush."

* * *

GENTLE wars like this are the sort of thing mostly likely to relieve the suburbanite of the charge of self-complacency that is hurled at him now and then by writers with long hair and soft collars who like to scribble about what they call a non-progressive 'villa class. The suburbanite, as a matter of fact, is a pioneer. He is the torch bearer for all those others in the general community who stick to the brick and stone canyons and prefer the stars of musical comedy to those of the sky. The suburbanite likes his peas out of the pod and not out of cans. He prefers the real to the Belasco sunset. He is a constant incentive to saner and better ordered existence and it is always cheering to observe that he doesn't lose his estheticism in the wilds.

"To improve nature is a difficult task, but it can be done. Good architecture is the chief means to this end. If Narberth gets its railroad station—with post-office attached—other communities will follow with demands and incentives for similar improvements. The general result will be added charm in those suburban regions that are already the most attractive in the East."

EDITORIAL NOTES

Convention Hall will be constructed on the Parkway for a sum within the limit of money available for the project. Plans for the hall are already under consideration and real work in regard to them will be started as soon as Mayor Smith returns from Florida. The building will be the finest architecturally and in every other detail that can be built for the money available, which is approximately \$1,418,000. The contemplated building will have a capacity of 6,000.

* * *

Director Webster, of Wharves, Docks and Ferries, in an address before the Engineering Society of the University of Pennsylvania, predicted a large increase in business at this port, as the result of river improvements planned and under way.

* * *

The American Academy in Rome, which has headquarters at 101 Park avenue, New York, has announced its competitions for fellowships in Rome in architecture, sculpture, painting and landscape architecture. Each of the fellowships is valued at \$1,000 a year for three years. The contest is open to all un-

married men and citizens of the United States. Detailed circulars are being issued by C. Grant LaFarge, secretary of the American Academy in Rome. The competitions are held annually and bring to the fore artists in each of the four fields.

* * *

For renovating, remodeling and rat-proofing the municipal markethouse at Pine and South streets a contract for \$19,786 was awarded by Director Datesman to E. Clifford Durell.

* * *

Gross earnings of the Bell Telephone Company of Pennsylvania and associated companies for the year ended December 31 were \$22,709,183, as compared with \$21,492,643 for the previous year. Net amounted to \$5,976,774, to compare with \$5,811,633 in 1915. The company has a surplus of \$1,754,246 after paying dividends. During the year the number of owned stations increased 48,368 to 571,794. Additions to real estate, equipment and lines amounted to \$4,873,036.

* * *

A protest has been sent to the United States Senate through Senator Penrose,

by the Bourse, protesting against the enactment of the revenue bill, whereby a tax would be laid upon excess profits of corporations and partnerships. The Bourse declares the act is unfair.

* * *

The Pittsburgh Plate Glass Company reports gross earnings of \$31,580,255 for the year ended December 31, to compare with \$22,825,074 the previous year. Profits were \$6,886,188, compared with \$2,201,343 for 1915.

* * *

A municipal stadium, with a seating capacity of 20,000, was advocated by officials of the Meadowbrook Club, at a dinner in the Union League. Councils have passed a bill carrying an appropriation of \$1,500,000 for a convention hall, and Meadowbrook members are fostering a movement to have the structure large enough to accommodate big indoor athletic meets.

It was pointed out by Andrew C. McGowin, president of the club, that 17,000 persons attended the Meadowbrook Club meet in the old Convention Hall, Broad street and Allegheny avenue, which is now being demolished. He said this attendance was an argument in favor of a big stadium.

The facilities of other cities in being able to stage indoor meets were outlined by Samuel J. Dallas, the club's secretary. A stadium of 20,000 capacity was also advocated by Lawson Robertson, track coach at the University of Pennsylvania, and James E. (Ted) Meredith, the world's champion runner.

* * *

A compulsory State health insurance bill is to be introduced in the Legislature about March 15.

The bill, which is drawn to conform with the standard bill of the National Association for Labor Legislation, has virtually all the features of the German health insurance system.

Every employed person in the State receiving less than \$100 a month is required to be insured for health. The benefits are paid through local funds, or societies, organized and controlled jointly by employers and employees. The employer contributes two-fifths of the fund, the employee two-fifths and the State one-fifth.

A commission composed of three men, to be appointed by the Governor, will administer the system. This commission will have an advisory council of eleven medical men and a council of twenty-four men selected from the directorates of the local fund.

In each working district of 5,000 inhabitants or more the commission will organize local and trade funds which will

administer the distribution of benefits, make arrangements with hospitals, physicians and nurses, pay death benefits and maternity benefits.

* * *

Extensive improvement of Cobbs Creek Parkway and the vicinity, especially in the southern section, is foreshadowed by the contracts on which bids were opened by Director Datesman. The contracts are for two concrete bridges, each 125 feet long and 7 feet wide, near Mount Moriah Cemetery. The low bidder is the Cantrell Construction Company at \$47,500.

Bids were also opened for the construction of a steel and concrete bridge, 60x60 feet on the line of Fifth street over the Richmond branch of the Philadelphia and Reading Railway. Monahan and Loses are the low bidders, their price being \$20,776.

* * *

All but two of the important sites on the Parkway between Logan square and the entrance to the Park have been allotted or recommended for allotment by the art jury. The first definite idea of how that end of the Parkway will appear when the buildings are completed is furnished in the art jury's annual report.

Beginning at Logan square, on the north side, will be the Philadelphia Free Library, extending from Nineteenth to Twentieth streets. The art jury has also recommended that the property between Eighteenth and Nineteenth streets facing the square also be acquired for the erection of a building of the same general design as the library.

Between Twenty-first and Twenty-second streets will be the Municipal Auditorium, with a runway sixty feet wide between Twentieth and Twenty-first streets offered access to storage space under the auditorium.

A plot of ground fronting on the plaza between Spring Garden street and the Parkway has been designed as the site for the Pennsylvania Academy of the Fine Arts. On the opposite side of the Parkway a location has been set aside for the Pennsylvania Museum and School of Industrial Art. Between the site of the Academy and the Municipal Auditorium permission has been granted for the erection of an Episcopal Cathedral.

On the northeast side of the Parkway between Twentieth and Twenty-first streets a plot has been recommended by a State commission as a site for a building to house the State Boards and officials whose principal business is in this city. This completes the allotments on the northeast side of the Parkway.

On the other side the art jury has recommended the ground from Twenti-

eth street to Twenty-first street for the municipal court building. The Philadelphia Museum of Art will be located on the promontory on the edge of the Park. This leaves only two important sites, one from Twenty-first to Twenty-second street and the other from Twenty-second to Twenty-third streets, both on the southwest side of the Parkway.

The art jury has recommended that the city extend the Parkway to include the ground as far as Powelton avenue and the river, partly for the protection of the Parkway and partly to provide a proper approach to the proposed Schuylkill embankments.

* * *

The offices of the State Insurance Department in Philadelphia, Harrisburg and Pittsburgh are to serve as information bureaus from which anyone may obtain information and advice on any insurance problem by calling or writing, it has been announced by J. Denny O'Neil, State Insurance Commissioner. The Philadelphia office is in the Commercial Trust Building. The commissioner reported there are \$2,197,357,870.56 worth of life insurance and \$2,292,203,732.48 worth of fire insurance in force in the State, and that while the Department costs the State \$80,000 a year it brings in \$2,000,000 in revenue.

* * *

About 1000 representatives of big business interests will attend the three-day convention of the National Foreign Trade Council which opens in Pittsburgh.

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AMERICA'S OLDEST HOUSE AT GUILFORD.

Was Erected by Company Which First Settled the Connecticut Town About the Year 1639.

Guilford, one of the interesting historical spots of the Connecticut coast, is among the towns on the shore road to New London from New York or New Haven. In driving through, automobile parties frequently stop to inspect the Old Stone House of Guilford, believed to be the oldest house now standing in the United States. It was erected by the company that first settled the town about the year 1639. Henry Whitfield was the leader of the little colony, and was one of the principal planters and a minister of the Church of England, a Nonconformist.

The house was built for him of stone brought on hand-barrows from a ledge some considerable distance away, and the stone cement in the walls is at the present time harder than the stones. Whitfield returned to England in 1649, and the house was used as a kind of fort for some years. The first marriage which took place in the town of Guilford, or Menunkatue, the Indian equivalent, was solemnized in the stone house, and the wedding supper consisted of pork and beans.

Within the last few years the building, which is sixteen miles east of New Haven and thirty-six miles southeast of Hartford, has been taken over by the State, and is now in use as a State museum. The walls have been plastered, the floors repaired, and the grounds improved and laid out like a Colonial garden, and here may be found many relics of early New England days to interest and instruct, among them an ugly old pine armchair which was made in England and brought to this country in 1639. It belonged to Governor William Leete, whose son, John, was the first white child born in the town of Guilford.

There is also a chair which was owned by John Hart, the first graduate of Yale University. The garret is the most interesting of the three floors, for here are to be found a dozen spinning wheels, wool cards, sad-irons, a wolf trap, grain fans, a collection of army saddles, cradles, a pewter communion set, and baptismal bowl, an adze, a pottle, and a corn sheller. Until 1840 corn was shelled by the simple process of tying a long-handled frying-pan over a tub and drawing the ear of corn across the sharp edge. Later a cumbersome device was invented with several blades set in a wooden roller which rested in a trough.

The queerest of all the relics are three-cornered, rough, wooden hat boxes and the original town clock, which had only one hand. The boxes were fashioned to accommodate the cocked hats, which were originally round, but as their great circumference made them extremely difficult to handle, the style was changed to suit masculine convenience and the brims were caught up in the rear and at each side. The clock is a wooden structure which

was presented to the town in 1726 by Ebenezer Parmalee, who built it. Its one hand told the hour and every night, excepting Saturday, curfew rang from the clock tower at 9 precisely.

CIVIL SERVICE EXAMINATIONS.

On March 14th, there will be examinations for Draftsmen in the following Services: Copyist, topographic, Department Service; Junior architectural, Supervising Architect's Office; Topographic, Departmental Service; also Electrician, Departmental Service; Junior Engineer, civil, Engineer Department at large; Junior Engineer, civil, and draftsman, Departmental Service; Junior Engineer, mechanical or electrical, Engineer Department at large.

On April 11th, there will be examinations for Draftsmen in the following Services: Architectural, Supervising Architect's Office; Copyist, Navy Department; Mechanical, Panama Canal Service; Topographic, Panama Canal Service.

There is also to be held an examination for Mechanical Draftsman, Office of the Chief of Ordnance, War Department, Washington, D. C., at salaries ranging from \$1,000 to \$1,200 a year.

Further particulars regarding these examinations may be obtained by applying to the Civil Service Commission, Washington, D. C.

THE MIXER.

A curious thing is the Mixer Man,
More human than you may think,
With his yawning maw, his grinding crew,
And yearning for food and drink.
Gentle and kind is the Mixer Man,
And eats, as you doubtless know,
Cement and sand from his owner's hand,
With a chaser of H₂O.

A stomach strong has the Mixer Man,
And never a care has he,
You can always tell when you feed him well,
For he sings right merrily.
He munches and crunches his sand and stone
Until finely ground and blent,
And how he will grin as you tumble in
His favorite food, cement.

A mighty force is the Mixer Man,
The builder's trusty friend;
He never shirks, but works and works
'Till the toilers homeward wend;
And hour by hour his molten flood
Of concrete lava flows,
To shape and seal the knitted steel,
Where the building grows and grows.
—Frank Adams Mitchell, in "The National Builder."

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.
—Exchange.

COLOR IN DECORATION.

The Door as an Object for Polychrome Decoration.

Two noteworthy tendencies have been clearly visible in the architectural treatment of interiors within the recent past. The first is a disposition on the part of architects to avail themselves more fully of the manifold opportunities open to them of making interior woodwork again an important factor of decorative interest and embellishment, as it once was in former periods of our own architectural history and as it was during so many stages of architectural development both in England and in foreign countries.

The second tendency is closely related to the first. It is, in fact, an important integral part of it and marks a logical step of progress in the course just noted for reawakened perception and appreciation of decorative resources within the purview of architectural employment. It is with this second tendency, the tendency to call in the aid of polychrome enrichment, that our immediate concern lies. Some years ago when we began, reticently and experimentally at first, to turn to wood as an added source of decorative amenity, through the influence of a revival of the so-called Colonial style, we labored under the obsession that white paint was an indispensable accompaniment. A little later we realized that the builders of the eighteenth century and before had not restricted themselves in the choice of color for interior woodwork and then we ventured to try grays and gray greens with occasional excursions into more pronounced chromatic treatment. The reaction against the exclusive use of white was also furthered by the popularity of rooms paneled in a French or semi-French mode of Louis Seize characteristics and painted gray.—H. D. Eberlein in "Arts and Decoration."

COMING TRADE CONVENTIONS.

—The National Pipe and Supplies Association will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

—The National Fire Protection Association will hold its annual meeting in Washington, D. C., May 8-10, 1917.

—The National Brick Makers' Association will hold its next convention at the Hotel McAlpin, Broadway and Thirty-fourth street, New York City, from March 4-11, 1917.

—The National Complete Building Show will be held in the Grand Central Palace, New York City, March 5-11, 1917.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Loft Building, 239-43 South Fifth street, Philadelphia. Architect, C. E. Rahn, 410 Walnut street, Philadelphia. Owner, Maur Levan, 239 South Fifth street, Philadelphia. Reinforced concrete and brick, 10 stories, 112x75 feet, slag roof, steam heat, electric light, metal lath, fire doors, cement floors. Preliminary plans in progress.

Residence (alt. and add.), Prospect avenue and New street, Chestnut Hill. Architects, Bissell & Sinkler, 1218 Chestnut street, Philadelphia. Owner, Dr. Wm. H. Jefferys, 100 Walnut lane, Philadelphia. Brick and plaster, 2½ stories add, 2 stories, 40x35 feet, tin roof, plumbing, metal lath, tile work, pine and cement floors (hot air heat and electric work reserved). Revised plans in progress. Architects will take bids in a week.

Residences (18), Cobb's Creek Parkway, between Fifty-eighth and Fifty-ninth streets. Architect, private plans. Owners, Fox & Armstrong, 5957 Cobb's Creek Parkway. Brick, 2 stories, 16x61 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners taking sub-bids.

Twin Residences (2 pairs), Fifty-fourth and Wynnefield avenue, Wynnefield. Architects, Neubauer & Boyd, 1118 Chestnut street, Philadelphia. Owner, W. Percival Johnson, 4039 Lancaster avenue, Philadelphia. Brick, stone and plaster, 2½ stories, 22x40 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Owners ready for sub-bids.

Twin Residences (9 pairs), Fifty-fourth and Wynnefield avenue, Wynnefield, Pa. Architect, H. Taylor Smith, 6152 Nassau street, Philadelphia. Owner, W. Percival Johnson, 4039 Lancaster avenue, Philadelphia. Brick, stone and plaster, 2½ stories, 22x40 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Owners ready for sub-bids.

Garage, Twenty-sixth and Parrish streets, Philadelphia. Architect, private plans. Owners, Finnesey & Kobler, Twenty-sixth and Parrish streets, Philadelphia. Brick and concrete, 1 story, 121x100 feet, slag roof, cement floors. Owners taking bids.

,Boulery

Factory, Ruscomb street and Stenton avenue, Wayne Junction, Philadelphia. Architect private plans. Owners, Atwater Kent Manufacturing Works, 4937 Stenton avenue, Philadelphia. Brick (slow burning), 1 story and basement, 146x217 feet, asphalt roof, cement floors, metal lath, rolled steel sash, fire doors (elevator, plumbing, heating, electric work and sprinkler reserved). Owners taking bids, due in 10 days. Bailey-Lush Co., 201 North Broad street; Turner Concrete Steel Co., 1713 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; Wm. R. Dougherty, 1610 Sansom street; F. W. Mark Const. Co., Finance Building; George & Borst, 277 South Eleventh street, and H. C. Rea Co., 1027 Wood street; Wm. Steel & Sons Co., 1600 Arch street; Wark-Yardley Co., 1737 Filbert street, are figuring.

Sunday School, Eighteenth and Tioga sts., Philadelphia. Architects, Stearns & Castor, Stephen Girard Building, Philadelphia. Owners, Tioga M. E. Church, care of Rev. George Gaul, on premises. Stone, 1 story. Plans in progress.

Stores and Apartments (alts.), northeast corner of Sixteenth and Columbia avenue.

Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Max Roetenberg, 1419 Ridge avenue, Philadelphia. Brick, 2 and 3 stories (add.), 17x27 feet, tin, slate and tile roof, oak and pine floors (heating, electric work, decorating reserved. Revised plans in progress.

Manufacturing Building (add.), Front and Erie avenue, Philadelphia. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Hess-Bright Manufacturing Co., on premises. Brick, steel, reinforced concrete and terre cotta, 1 and 2 stories, 96x218 feet, slag roof, pine, marbleoid composition, cement and maple floors, metal lath, rolled steel sash, metal lockers (steam heating, sprinklers, electric work reserved). Architects taking bids, due March 5th. Harrison C. Rea Co., 1027 Wood street; Stone, Webster Co., 5 Nassau street, New York City; H. E. Baton, Twelfth and Sansom streets; H. H. Wehmeyer, 1004 West Lehigh avenue; P. Haibach Cont. Co., Twenty-sixth and Thompson streets, and James Johnston, 1721 Ludlow street, are figuring.

Loft Building, northwest corner of Ninth and Poplar streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Strawbridge & Clothier, Eighth and Market streets, Philadelphia. Reinforced concrete, steel and brick, 8 stories, 101x234 feet, reinforced concrete and slag roof and reinforced concrete floors, metal lath, rolled steel sash, fire doors, ventilators, sprinklers, safety treads, tile and marble work, 5 elevators, rolling steel shutters, mezzanine floors, chimney 75 feet high, radial gray brick. Architects taking bids, due March 1st. In addition to those previously reported, Barclay White & Co., 1713 Sansom street, and Longacre Const. Co., Widener Building, are figuring. Heating and lighting reserved.

Artillery Case Shop and Instrument Department Building (adds.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, George Montgomery, Col., Frankford Arsenal. Brick, concrete, steel, stone trim, 1 and 2 stories, 199x49 feet, and 4 stories, 63x29 feet, maple floors, hollow tile, 1 elevator, rolled steel sash, waterproofing, safety treads, metal window guards (heating and lighting reserved). Lowest bidders on artillery shop, Ketcham & McQuade, 1029 Brown street, \$65,000, and Thos. Reilly, 1618 Thompson street, \$70,886; on instrument department building, Ketcham & McQuade, 1029 Brown street, \$28,205, and Thos. Reilly, 1618 Thompson street, \$30,992.

Residences (8), Oak Lane, Philadelphia. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, James Orr, 2754 Germantown avenue, Philadelphia. Brick, frame and stucco, 2 stories, 40x16 feet, flexible roof, hot water heating, electric lighting, hardwood floors. Owner is taking sub-bids.

Office Building, southeast corner of Fifty-seventh and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick, stone, concrete and steel, 4 stories, 170x61 feet, slag roof, hot water heating, electric lighting, metal lath and sash, waterproofing, fire doors, sprinklers, tile and marble work, tile floors, hollow tile, elevators, fixtures, terrazzo work. Architect taking

bids, due March 6th. F. L. Hoover & Sons, 1023 Cherry street, and H. E. Baton, Twelfth and Sansom streets; Irwin & Leighton, 126 North Twelfth street; F. A. Havens & Co., 845 North Nineteenth street, and H. H. Burrell, 206 South Quince street, are figuring.

Garage, Sixteenth and Ingersoll streets. Architect, Amos W. Barnes, Hermit and Righter streets, Roxborough. Owners, Brighton Garage, on premises. Brick, steel and reinforced concrete, 2 stories, 88x105 feet and 52x97 feet, slag roof, cement floors, metal lath, rolled steel sash (plumbing, heating, electric work and elevator reserved). Architect taking bids, due March 1st. In addition to those previously reported, Wark-Yardley Co., 1737 Filbert street, are figuring.

Sunday School (alt. and add.), Thirty-third and Wharton streets, \$500. Architects, Chas. W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Hope Presbyterian Church, care of Rev. J. G. Bolton. Consists of platform and ante rooms, plastering, pine floors. Architects taking bids, due, February 28th. Thos. C. Trafford, 1613 Sansom street, is figuring (only bidder).

Office Building, Sixth, Chestnut, Seventh and Sansom streets, Philadelphia. Architect, Arnold W. Brunner, 101 Park avenue, New York City. Engineers, Frank C. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Public Ledger Co., Cyrus H. K. Curtis, president, Sixth and Chestnut streets. Brick, stone, steel, fireproof, 10 stories, slag roof, steam heating, electric lighting. Preliminary plans in progress.

Apartment House (alt.), 1429 Poplar street, Philadelphia, \$3,000. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Julius C. Martin, care of architect. Brick, 3 stories, plumbing, electric light, hardwood floors, skylight, tile and marble work. Architect taking bids, due March 2nd. Abel Botoms & Sons Co., Inc., 3611 Walnut street, and A. R. Raff Const. Co., 1635 Thompson street, are figuring.

Hospital Building, Tulip and Allegheny avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Northeastern Hospital of Philadelphia, 2359 East Allegheny avenue. Brick and reinforced concrete, stone trim, 2 stories, 101x41 feet, and 1 story, 31x31 feet, slag roof, terrazzo, cement and pine floors, metal lath, rolled steel sash, hollow tile, metal skylights, fire doors and tin clad and kalamein doors, tile and marble work (heating, electric work and elevator reserved). Architects taking bids, due March 7th. The following are figuring: A. R. Raff Const. Co., 1635 Thompson street; Ketcham & McQuade, 1029 Brown street; Irwin & Leighton, 126 North Twelfth street; Barclay White & Co., 1713 Sansom street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; John N. Gill & Co., Otis Building; H. E. Baton, Twelfth and Sansom streets; Pomerooy Const. Co., 1609 Ransstead street, and Alex. Chambley, 243 South Tenth street, Philadelphia.

Convent and School (alt. and add.), Thirty-eighth and Spring Garden streets. Architects, E. F. Durang & Sons, Inc., 1220 Locust street, Philadelphia. Owners, St. Agatha's R. C. Church, care of Rev. M. J. Donovan, on premises. Stone, 3 stories, 60x128 feet, slate roof, steam heating, electric lighting, fire tower,

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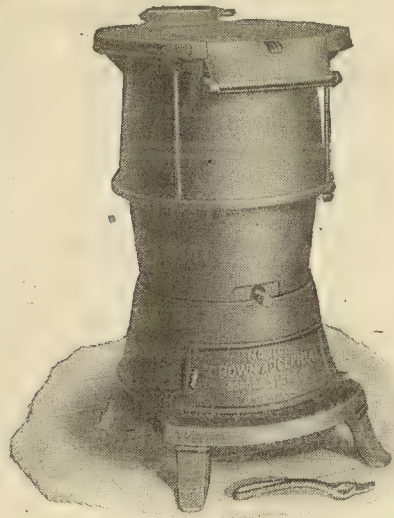
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metal lath, cement work, hardwood and composition floors. Architects taking bids, due March 4th. The following are figuring: John McShain, 1610 North street; H. P. Schneider, 3713 Old York road; Jacob Myers & Sons Co., Witherspoon Building; J. J. Murphy, 4034 Powelton avenue; H. E. Baton, Twelfth and Sansom streets; Monaghan & Losse, Inc., 3016 Chestnut street; Wm. R. Dougherty, 1610 Sansom street; Conneen Const. Co., 1737 Filbert street; Wm. J. McShane, 417 South Thirteenth street, Philadelphia, and Wagner & Taffney, Seranton, Pa.

Residence and Garage, Eleventh street and Medary avenue, Oak Lane. Architect, Valentine B. Lee, 1003 Spruce street, Philadelphia. Owner, Willard P. Barrows, on premises. Stone and frame, 2½ stories, 33x66 feet, garage, 2 stories, 24x24 feet, slate roof, cork tile and oak floors, electric light, metal lath, tile work (plumbing, heating and lighting fixtures reserved. Architect taking bids, due March 7th. T. C. Trafford, 1713 Sansom street; A. R. Raff Const. Co., 1635 Thompson street; Frank R. Hill, 6700 North Sixth street, Oak Lane; C. E. Lloyd, Jr., Eighth street and Sixty-sixth avenue, Oak Lane, and W. John Stevens, Inc., Wynecote, Pa., are figuring.

Stores (int. alt.), 900 Chestnut street, \$10,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Lea Estate, 700 Sansom street, Philadelphia. Brick, marble and reinforced concrete, cement and maple floors, hollow tile, metal lath, terrazzo work, tile and marble work. Plans completed. Architects ready for bids in a few days.

Store and Dwelling (alt. and add.), 2032

North Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Mone R. Isaacs, Hotel Lorraine, Philadelphia. Brick, 3 stories, 18x72 feet, tin roof, metal lath, metal bulks, composition and pine floors, metal ceilings, tile work, hot water heating, electric lighting (store fixtures, lighting fixtures and decorating reserved). Owner taking bids, due March 1st, from Lam Building Co., 1001 Wood st., Philadelphia.

Bank Building, northwest corner Broad and Fairmount avenue, Philadelphia. Owners, Northwestern National Bank, Girard and Ridge avenues, Philadelphia. Architect, Philipp Merz, 1205 Pennsylvania Building, Philadelphia. Granite, marble and steel, 1 story and balcony, 60 feet and 50x84 feet, steam heating, electric lighting, metal lath, cement and terrazzo floors, fire doors, cabinet work, tile and marble work. Plans in progress. Architect ready for bids in two weeks.

Garage (alt.), 321 Market street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, Markovitz Bros., on premises. Brick, steam heating, electric lighting, cement floors, gasoline storage system. Architects taking bids, due March 1st. Lam Building Co., 1001 Wood street, are figuring.

Rectory, Falls of Schuylkill, Pa. Architects, Stewardson & Page, 318 Walnut street, Philadelphia. Owners, St. James the Less P. E. Church, Rev. Edward Ritchie, Clearfield street and Nicetown lane. Stone, 3 stories, slate roof, hot air or steam heating, electric lighting, metal lath, tile work. Plans about completed. Architects ready for bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office Buildings (alts.), Liberty and Lincoln, northeast corner of Broad and Chestnut sts., Philadelphia. Architects, Osborn & Co., Inc., 1206 Finance Building, Philadelphia. Owner, John Wanamaker, Thirteenth and Chestnut streets, Philadelphia. Elevator shaft and concrete columns and foundations, hollow tile, steel doors, safety treads, A. P. M. skylights

(elevator reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Coal Pocket, Second and Washington avenue, Philadelphia, \$7,000. Architect, private plans. Owners, Pennsylvania Ice and Coal Co., 139 Washington avenue. Timber and concrete, 32x110 feet. Contract awarded to John

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725-26 Commercial Trust Building, Philadelphia

V. Speth & Co., 1714 Sansom street, Philadelphia.

Fire Tower and Elevator Shaft, Ninth and Girard avenue, \$8,000. Architects, Construction Department of Swift & Co., 60 North Market street, Boston, Mass. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, steel and concrete, 4 stories, 15x45 feet, slag roof, metal lath, cement floors, fire doors. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Erecting Shop and Machine Shop and Storage Building, Wheat Sheaf Lane and Sepviva street, Philadelphia. Architect, private plans. Owners, American Engineering Co., Aramingo and Cumberland streets. Brick, steel and concrete, 1 story, 200x200 feet and 50x100 feet, A. P. M. siding, asphalt and slag roof, concrete floors, rolled steel sash, rolling steel doors. Contract awarded to Austin Co., Transportation Building, Philadelphia.

Residence, Gowen and Stenton avenues, Mt. Airy, \$11,000. Architect, Chas. E. Oelschlagler, 1615 Walnut street, Philadelphia. Owner, Wm. H. Maus, 536 East Washington Lane, Germantown. Stone, 2½ stories, 31x58 feet, slate and tin roof, hot water heat, oak and pine floors, electric light, metal lath, tile work (plumbing, heating and electric work reserved). Contract awarded to Fringle Borthwick, 8018 Germantown avenue.

Railroad Siding and Coal Pockets, Byberry, Philadelphia, \$18,874. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Health and Charities, Dr. Wilmer Krusen, Director, RoRoM 584 City Hall, Philadelphia. Reinforced concrete. Contract awarded to Daniel J. Lynch, 4029 Cambridge street, Philadelphia.

Power House, Coal Pocket and Pipe Tunnel, Erie avenue yard, Philadelphia. Engineer,

Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Reading Terminal, Philadelphia. Brick and concrete, 1 story, 41x151 feet; coal pocket, concrete, 18x58 feet; pipe tunnel, concrete, 6x86 feet, slag roof, metal lath, rolled steel sash, waterproofing, steel doors, cement and brick floors (mechanical equipment reserved). Contract awarded to F. A. Havens & Co., 845 North Nineteenth street. No. 1, \$38,403, and No. 2, \$2,645.

Store (alt. and add.), 804 Passyunk avenue, \$10,000. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, Kempner Bros., 810 South Sixth street, Philadelphia. Brick, 3 stories, slag roof, vapor heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, cement and pine floors, 1 elevator, metal skylight. Contract awarded to Hogg Const. Co., 1634 Sansom st., Philadelphia.

Department Stores, 1027-29 Market street, Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, George H. Earle, Jr., Real Estate Trust Building, Philadelphia. Lessees, Epstein Bros., Seventh and Arch streets, Philadelphia. Brick, 7 stories, electric lighting, oak and pine floors, millwork, metal bulks, tile and marble work, store fixtures, also alt. to 1929, new first floor, electric lighting, hardwood floors, metal bulks, tile and marble work. Contract awarded to O'Meara Const. Co., 253 South Quince street, Philadelphia.

Office (alt. and add.), 933-35 North Ninth street, Philadelphia, \$2,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Keystone Supply and Manufacturing Co., on premises. Consists of new mezzanine floor, fire doors. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

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heating, electric lighting. Plans in progress.

Garage, West King street, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grand street, Lancaster, Pa. Owner, George Neff, West King street, Lancaster, Pa. Brick, 2 stories, 48x200 feet, slag roof, steam heating, electric lighting, reinforced concrete floors, 1 elevator. Plans in progress. Owner and architect will take bids in a week.

Residence, Lancaster, Pa., \$25,000. Architect, Melvern R. Evans, 10 East Orange street, Lancaster, Pa. Owner's name withheld. Brick, marble trim, 2½ stories, 28x60 feet, slate or tile roof, hot water heating, electric lighting metal lath, hardwood floors, weatherstrips, tile and marble work. Plans in progress. Will take bids about April 1st.

Residence, West End, Lancaster, Pa., \$14,000. Architect, Melvern R. Evans, 10 East Orange street, Lancaster, Pa. Owner's name withheld. Brick, 2½ stories, 28x48 feet, slate roof, hot water or vacuum heating, electric lighting, hardwood floors, weatherstrips, tile and marble work. Plans in progress.

Hospital (add.), Lancaster, Pa., \$40,000. Architect, Melvern R. Evans, 10 East Orange

PENNSYLVANIA

Construction News

Stores and Apartments, Hanover, Pa. Architect, Edw. Leber, Hay Building, York, Pa. Owner, George N. Gitts, Hanover, Pa. Brick and stone, 3 stories, 57x100 feet, slate roof, electric lighting. Plans in progress.

Mausoleum, Easton, Pa. Architect, Edw. Leber, Hay Building, York, Pa. Owners, York Mausoleum Co., J. R. Smith, Hanover, Pa. Granite, marble and bronze, 1 story, 30x100 feet, tile roof, marble floors, tile and marble work. Plans in progress.

Silk Mill (alt.), Columbia, Pa., \$2,000. Architect, Granville Paulus, Columbia, Pa. Owners, Schwarzenbach-Fuber Co., Columbia, Pa. Brick, 1 story, 27x97 feet, tin roof, steam heating, electric lighting, concrete and maple floors. Architect ready for bids.

Residence (alt.), East Orange street, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grand street, Lancaster, Pa. Owner, J. Fred Fisher, North Duke street, Lancaster, Pa. Brick, 3 stories, slag roof, hot water

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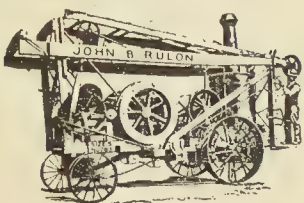
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street, Lancaster, Pa. Owners, Lancaster General Hospital, Lancaster, Pa. Brick, 3 stories, 40x40 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, fire doors, hollow tile, tile and marble work. Plans in progress.

Residence, Lewistown, Pa., \$10,000. Architect, John B. Hamme, Wiest Building, York, Pa. Owner, J. B. Selheimer, Lewistown, Pa. Brick and stone, 2½ stories, 50x40 feet, slate roof, vapor heating, electric light, hardwood floors, weatherstrip, tile and marble work. Plans in progress. Owner taking bids.

Residences (5), Bryn Athyn, Pa. Architects, Walker & Carswell, Bryn Athyn, Pa. Owners' names withheld. Brick and stone, 2½ stories, various sizes, shingle roof, oak floors, electric lighting. Edwin Asplundh, 2121 Land Title Building, Philadelphia, taking sub-bids.

Cottage No. 3, Haverford, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Frame, 2½ stories, 36x36 feet, shingle roof, electric lighting, pine floors (hot air heating reserved). Architects taking bids, due February 28th. Millard N. Croll, Radnor, Pa.; Gray Bros., Rosemont, Pa.; Charles C. Pace, Merion, Pa., and Elfretth & Co., 1633 Ransstead street, Philadelphia, are figuring.

Residences (100), Chester, Pa. Architect, private plans. Owners, Chas. F. Kolb and Charles E. Biddle, 109 West End Trust Building. Brick, 2 stories, 16x32 feet, slag roof, hot air heating, pine floors, gas lighting. Owners taking sub-bids, due March 2nd.

Residence, Glenside, Pa. Architect, private plans. Owner, Mrs. Rosaria Cristaldi, 420 Leedom street, Jenkintown, Pa. Frame and plaster, 2 stories, 24x33 feet, slate roof, hot air heating, electric lighting, pine floors (excavating and mason work reserved). S. Cristaldi, Jenkintown, Pa., taking bids, due in one week. W. John Stevens, Inc., Wyncote, Pa.; Specht & Sperry, Heed Building, Philadelphia; Krusen Bros., Glenside, Pa., and Linford Sperry, Glenside, Pa., are figuring.

Passenger Station, Chestnut Hill, Pa., \$35,000. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Brick and stone. Plans nearly completed. Owners will take bids in a few days.

School and Auditorium Building, Fort Washington, Pa., \$40,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Upper Dublin School District, Jarrettown, Pa. Stone, 2 stories, 60x90 feet, and 1 story, 65x90 feet, slate and slag roof, San Furnace system of heating, electric lighting, yellow pine floors. Architects taking bids, due March 7th. The following are figuring: Alex. Chambley, 243 South Tenth street; Jas. B. Flounders, 1329 Arch street; Henry P. Schneider, 3713 Old York road; Abel Bottoms

& Sons Co., 3611 Walnut street; F. L. Hoover & Sons, 1023 Cherry street; Specht & Sperry, Heed Building; S. M. Fesmire, Glenside, Pa.; Enoch James, Fort Washington, Pa.; W. John Stevens, Inc., Wyncote, Pa.; James Bartleson, Ambler, Pa.; Wm. D. Lukens, North Wales, Pa., and Wm. L. Hampton, Pottstown, Pa.

Residence, Ithan, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, John F. Meigs, 2nd., North American Building, Philadelphia. Stone, 2½ stories, 26x62 feet, shingle roof, oak and pine floors, waterproofing (plumbing, heating and electric work reserved). Architects have received bids.

Residence (alt. and add.), Wynnwood, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Grenville D. Montgomery, Wynnwood, Pa. Stone, 2½ stories, 77x43 feet, slate roof, oak floors, weatherstrips, dumb waiters, tile and marble work (heating reserved). Architects taking bids, due March 5th. Metzger & Fisher, Denekla Building; Graham Campion Co., Otis Building; Gray Bros., Rosemont, Pa.; James H. Wells, Heed Building, and R. C. Ballinger & Co., 128 North Thirteenth street, are figuring.

Passenger Station, Merion, Pa., \$17,000. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and plaster, 1 story, 38x13 feet and 9x16 feet, slate roof, steam heating, electric lighting, metal lath, maple floors, terrazzo work, marble work, metal window guards (cement, demolition, paving and grading platforms, P. O. fixtures reserved). Owners, care of Harrisburg Division, W. B. Caleb, superintendent, taking bids, due March 5th. Warren, Moore & Co., Commercial Trust Building; Roydhouse-Arey Co., 112 North Brown street; Jacob Myers & Sons Co., Witherspoon Building; J. Sims Wilson Co., 1125 Brown street, and Monaghan & Losse, Inc., 3016 Chestnut street; Driscoll Co., Stock Exchange Building; Graham Campion Co., Otis Building; James H. Wells, Heed Building; Metzger & Fisher, Denekla Building, Philadelphia, and Charles C. Pace, Merion, Pa.; E. F. Fonder, Land Title Building, and Guy Croyle, Merion, Pa., are figuring.

Residence, Melrose, Pa. Architect, Edwin A. Yeo, Stephen Girard Building, Philadelphia. Owner, John H. Cleeland, 114 Stratford road, Melrose, Pa. Stone or hollow tile and plaster, 2½ stories, 26x46 feet and 16x25 feet, slag roof, steam heating, oak floors. E. E. Hollenback, Inc., 1804 Brandywine street, has received sub-bids.

Garage, 712-15 Columbia avenue, Lancaster, Pa., \$7,000. Architect, J. B. Harman, 48 N. Queen street, Lancaster, Pa. Owner, James Hires, 422 Queen street, Lancaster, Pa. Brick and steel, 1 story, 50x120 feet, composition roof, hot water heating, electric lighting, con-

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crete floors, gasoline storage system. Architect has received bids.

Residence (alt. and add.). Rockland and Vine streets, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, Samuel Clerico, on premises. Hollow tile, 3 stories, slag roof, hot water heating, electric lighting, yellow pine floors, hollow tile. Owner taking bids. John Grube, Samuel Jefferies, E. Frank Bachman and Jacob Stumph & Son, all of Lancaster, Pa., are figuring.

Warehouse, Mulberry street, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Sheet Metal and Supply Co., Lancaster, Pa. Brick, 1 story, 34x24 feet, slag roof, electric lighting, wood floors, fire doors. Owner taking bids. Luther Wilson, Herman Evancmen and John Grube, all of Lancaster, are figuring.

Store and Apartment, Fourth and Locust streets, Columbia, Pa., \$40,000. Architect, Granville Pauls, Columbia, Pa. Owners, Herr & Co., Lancaster, Pa. Reinforced concrete and brick, 3 stories, 100x58 feet, composition roof, steam heating, electric lighting, metal lath, waterproofing, composition floors, elevators, store fixtures, tile and marble work. Architect will take revised bids in two weeks.

Sunday School, Newberry and Philadelphia streets, York, Pa., \$35,000. Architects, Gemmill & Billmeyer, York, Pa. Owners, First United Brethren Church, Rev. Long, on premises. Stone, brick and steel, 2½ stories, 75x110 feet, slate and tin roof, fan system of heating, electric lighting, composition and hardwood floors, skylights, 4 sliding fire doors. Architects taking bids. George W. Gilbert, Samuel Glatfelter, James L. Menough & Son, Hess Bros., Calvin Boyer and Caspar Oerman, all of York, Pa., are figuring.

School, Newberry and Kurtz streets, York, Pa., \$40,000. Architects, Leber & Stair, associated, York, Pa. Owners, Board of Education, M. O. Lewis, York, Pa. Brick and terra cotta, 2½ stories, 66x91 feet, slag roof, steam and hot air heating, electric lighting, hollow tile work, metal sash, fire doors, tile and marble work, metal window guards. Owners taking bids, due March 1st. James L. Menough & Son, Samuel Glatfelter, George W. Gilbert, Calvin Boyer, Hess Bros and F. Werner, all of York, Pa., are figuring.

Farm House, Radnor, Pa. Architects, Chas. Willing and Furness, Evans & Co., Franklin Bank Building, Philadelphia. Owner, E. B. Howard, Bryn Mawr, Pa. Stone, frame and stucco, 1½ stories, 31x28 feet, shingle or slate roof, pine floors, metal weatherstrips (plumbing, heating and lighting reserved). Architects taking revised bids, due March 1st. Wm. R. Dougherty, 1610 Sansom street, and E. J. Hedden, Finance Building, Philadelphia, are figuring.

Cottages (2), Laverock, Pa., \$25,000. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Drexel Building, Philadelphia. Stone, 2½ stories, 35x45 feet, slate roof, hot air heating. Plans about completed. Architect will take bids in a few days.

Residence, Laverock, Pa. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Drexel Building, Philadelphia. Stone, 2½ stories, slate roof. Plans about completed. Architects will take bids in about ten days.

Hotel (alt.), Second and Market streets, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, Commonwealth Hotel, on premises. Consists of new store fronts, etc. Sketches in progress. Details not decided.

Office Building (add.), Patriot Building, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, McCormick Estate, Patriot Building, Harrisburg, Pa. Brick, 1 story, 26x155 feet, concrete roof, concrete floors, electric lighting, hollow tile work (steam heat reserved). Plans in progress.

Publishing House, Third and Reily streets, Harrisburg, Pa. Architect, F. G. Fahnstoeck & John Raidabaugh, Patriot Building, Harrisburg. Owners, Evangelical Publishing Co., Harrisburg, Pa. Reinforced concrete, 2 stories, 210x162 feet, slag roof, central steam heat, electric lighting, metal sash, fire doors, sprinklers, tile and marble work, hollow tile, one elevator. Plans in progress.

Residence, Bellevue Park, Harrisburg, Pa. Architects, F. G. Fahnstoeck & John Raidabaugh, Patriot Building, Harrisburg. Owner, J. T. Maister, care of architects. Stone and plaster, 2 stories, 30x45 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Plans in progress.

Store and Apartments, Third and Kelker streets, Harrisburg, Pa. Architects, F. G. Fahnstoeck & John Raidabaugh, Patriot Building, Harrisburg. Owner, H. C. Koons, 2012 North Third street, Harrisburg, Pa. Brick, 3 stories, 45x70 feet, slag roof, steam heating, electric lighting, metal lath, dumb waiters, store fixtures, tile and marble work. Sketches in progress.

Club House (alt.), Third and Boas streets, Harrisburg, Pa. Architect, C. Harry Kain, 317 Chestnut street, Philadelphia. Owners, Loyal Order of Moose, on premises. Brick, 3 stories, 48x155 feet, slag roof, electric lighting, metal lath, hardwood floors, terrazzo work, tile and marble work (heating reserved). Architect has received bids.

Store (alts.), Carlisle, Pa., \$6,000. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, Bowman & Co., Harrisburg, Pa. Brick, 1 story, 61x30 feet, quarry tile floors, cabinet work. Architect has received bids.

Church, Perkiomen avenue and Seventeenth street, Reading, Pa. Architect, Alex. F. Smith, Reading, Pa. Owners, Penn Presbyterian Church, on premises. Stone, 1 story and basement, 50x100 feet, slate roof, steam heating. Sketches completed.

Chapel, Pennside, Reading, Pa. Architect, Alex. F. Smith, Reading, Pa. Owners, Penn Presbyterian Church, Pennside, Reading, Pa. Stone, 1 story and basement, 40x40 feet, slate roof, steam heat, electric lighting. Architect taking sub-bids on all lines.

Residence (alt. and add.), Reading, Pa., \$5,000. Architect, F. A. Muhlenberg, Colonial Building, Reading, Pa. Owner, G. H. Bright, care of architect. Frame, 2½ stories, 2 wings, 20x20 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Residence (alt. and add.), Reading, Pa., \$10,000. Architect, F. A. Muhlenberg, Colonial Building, Reading, Pa. Owner, John A. Keppleman, care of architect. Brick, 2½ stories, 30x50 feet, 2 wings, slate roof, hot air heat, electric lighting, hardwood floors, tile and marble work. Plans in progress.

Country Club, Pottstown, Pa., \$10,000. Architect, F. A. Muhlenberg, Colonial Building, Reading, Pa. Owners, Brookside Country Club, Pottstown, Pa. Frame. Preliminary sketches completed.

Garage, Muhlenberg Township, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owner, Harvey Kramer, 742 Center avenue, Reading, Pa. Tile and stucco, 2 stories, 26x33 feet, asbestos shingle roof,

steam heating, electric lighting, concrete and yellow pine floors, tile work, gasoline storage. Plans in progress.

Garage, Washington street, Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Hoydt Motor Car Co., Washington street, Reading, Pa. Brick, 2 stories, 58x90 feet, slag roof, hot water heating, electric lighting, metal lath, 1 elevator, wood floors. Architect ready for bids.

Residence (add.), Meadowbrook, Pa. Architect, Charles W. Bolton, Witherspoon Building, Philadelphia. Owner, Mrs. Catharine Kulling, Meadowbrook, Pa. Stone and hollow tile, 1 story, library addition, tin roof, oak floors (plumbing, heating and electric work reserved). Architects taking bids, due as soon as possible. Specht & Sperry, Heed Building; F. L. Hoover & Sons, 1023 Cherry street, Philadelphia; Joseph Ashby, Second street pike, Fox Chase, and W. John Stevens, Inc., Wynote, Pa., are figuring.

Theatre Building, South George and Philadelphia streets, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Jackson Theatre Co., York, Pa. Brick, stone and stucco, 1 story and balcony, 100x60 feet, slag roof, steam heating, electric lighting, metal lath, fire doors, tile work, yellow pine floors, terrazzo work. Architect will take bids in about two weeks.

Office Building, Fourth and Spruce streets, Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Merritt Bros., Inc., Fourth and Spruce streets, Reading, Pa. Brick, 2 stories, 32x16 feet (roofing and floors reserved by owners), vapor vacuum heating, electric lighting. Owners will take bids in a few days.

Residence, Bala, Pa. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, P. J. Lawler, Bala, Pa. Stone, 3 stories, 28x32 feet, wing 11x17 feet, flat tile roof, hot water heating, electric lighting, hardwood floors, tile work. Owner ready for sub-bids on all lines.

MORE OR LESS PERSONAL.

B. J. Medoff, a widely known local architect, died on Thursday last. Mr. Medoff had offices at 524 Walnut street and was the designer of much important work.

John I. Bright, architect; James H. Wells, builder, and the John D. Emack Company, slate producers, are among recent removals to the new Otis Building, at Sixteenth and Sansom streets.

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Contracts Awarded

Store (alt.), Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Mr. DeMuth, Lancaster, Pa. Brick, 3 stories, slate roof, hot water heating, electric lighting, oak floors, tile and marble work. Contract awarded to W. H. Fleck, Lancaster, Pa.

School (alt. and add.), Coatesville, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, School District, Coatesville, Pa. Brick, reinforced concrete and steel, 3 stories and basement, add. 66x84 feet, slate or slag roof, cement and pine floors, hollow tile and plaster blocks, metal lath, dampproofing, ventilators, safety treads (heating, plumbing, electric work, furniture, painting, lighting fixtures separate bids). Contract awarded to W. J. Elliott, Coatesville, Pa.

Bridges, No. 2 and No. 3, north of Big Chickies Creek, Mount Hope Branch. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, the Reading and Columbia Railroad Co., care of Philadelphia and Reading Railway, Philadelphia. Steel and concrete. Contract for spans awarded to McClintic-Marshall Co., Morris Building, Philadelphia.

School, Biddle and Church streets, West Chester, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, W. H. Lewis, secretary, West Chester. Brick, stone, concrete and terra cotta, 3 stories, 147x66 feet and 70x41 feet, asbestos and asphalt roof, cement and pine floors, metal lath, waterproofing, fire doors (ventilators, steam heat, electric work, plumbing, separate bids), hollow tile, tile work. Lowest bidders: Metzger & Fisher, \$113,837, and Warren, Moore & Co., \$117,000.

School, Rockdale, Pa., \$21,252. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Board of Ashton Township, Delaware County, Pa. Stone and brick, 2 stories, 90x52 feet, slag roof, gum and cement floors (plumbing, heating, ventilating and lighting separate bids). Contract awarded to Flounders Bros., Media, Pa.

School, Palmerton, Pa., \$25,000. Architect, Chas. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Palmerton, Palmerton, Pa. Brick, stone trim, 2 stories and basement, 92x63 feet, slag roof, steam and hot air heating, electric lighting, yellow pine floors. Lowest bidder, C. S. Strayer & Eshelman, Harrisburg, Pa.

Department Store (alt. and add.), Second and Market streets, Harrisburg. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, David Kaufman, on premises. Brick, 3 stories, 50x25 feet, slag roof, central steam heating, electric lighting, metal lath, maple floors, sprinklers, tile and marble work. Contract awarded to W. S. Miller, Harrisburg, Pa.

Store Building and Apartments (alt. and add.), 515 Walnut street, Harrisburg, Pa. Architect, George H. Grove, 213 Walnut st., Harrisburg, Pa. Owner, Morris Caplan, 426 Walnut street, Harrisburg, Pa. Brick, 3 stories, 25x75 feet, slag roof, steam heating (central), electric lighting, yellow pine floors. Contract awarded to John Meyers, 14 S. Seventeenth street, Harrisburg, Pa.

Garage, Lansdowne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Clayton Wilson, 51 Greenwood avenue, Lansdowne, Pa. Hollow tile and plaster, 1½ stories, 22x32 feet, shingle roof, steam heating, electric lighting, cement floors. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Store (alts. and add.), 206 West State st., Media, Pa. Architect, Arthur G. Thorp, 404 West State street, Media, Pa. Owner, J. Harvey Sweeney, 124 South Orange street, Media, Pa. Brick and plaster, 3 stories, 1 story add., 19x16 feet, slag and tin roof, hot water heat, electric light, oak, pine and cement floors, new bulks, wall board, 1 dumb waiter. Contract awarded to James B. Flounders, 1329 Arch street, Philadelphia.

Residence (alt. and add.), Bryn Mawr, Pa., \$13,000. Architect, Louis H. Rush, 130 South Fifteenth street, Philadelphia. Owner, A. E. McVitty, 303 Vine street, Philadelphia, Pa. Brick, 2 stories, add., 41x22 feet and 12x22 feet, tile and slag roof, oak and pine floors, waterproofing, tile work, weatherstrips (heating, plumbing, electric work, fixtures and cabinet work reserved). Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Residence, Wynnewood, Pa., \$28,000. Architects, Paul M. Hesser & Paul A. Davis, associated, 1713 Sansom street. Owner, Wm. T. Bryan, 1322 Chestnut street, Philadelphia. Stone, brick and plaster, 2½ stories, 51x31 feet and 11x22 feet, slate and tin roof, hot water heating, electric lighting, metal lath, hardwood floors, tile and marble work. Contract awarded to James H. Wells, Heed Building, Philadelphia.

New Jersey Construction News

Factory Building, East State street, Trenton, N. J., \$14,000. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owners, De Lion Tire and Rubber Co., Trenton, N. J. Brick, 1 story, 50x112 feet, slag roof, steam heating, concrete floors, electric lighting. Architect has received bids.

Stores and Print Shop, Hopewell, N. J., \$18,000. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, E. V. Savidge, Hopewell, N. J. Brick and terra cotta, 3 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, tile and marble work. Lowest bidders, Sutpin Bros., Hopewell, N. J., \$27,000.

Store (alt. and add.), 1605 Atlantic avenue, Atlantic City. Architect, B. Ireland, Guarantee Trust Building, Atlantic City. Owners, A. Hirsh & Son, on premises. Metal ceiling, tile and marble work. Architect taking bids. Thompson Bros., C. D. Thompson, B. S. Steelman, P. G. Hannum, all of Atlantic City, N. J., are figuring.

Factory (add.), Mulberry street, Trenton, N. J., \$8,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Imperial Porcelain Co., Mulberry st., Trenton, N. J. Brick, 4 stories, slag roof, electric lighting, 1 elevator. Architects taking bids. Scott & Day, Burton & Burton, S. W. Mather & Sons, J. H. Morris, H. & M. Levy, Chas. J. Smith, Samuel Teitz, Ed. La Rue, C. Y. Barlow, Wm. Ivins, H. H. Clayton, Carl Poinsett, Samuel Wiley and Charles Randall, all of Trenton, N. J., are figuring.

Show Horse Stables (2) and Coliseum, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Trenton Interstate Fair Association, Trenton, N. J. Frame and stucco, 1½ stories, 38x200 feet, slag roof, electric lighting, concrete floors. Owners taking bids. Contract awarded to Teitz & Son for stables and for coliseum to I. H. Clayton, Trenton, N. J.

Fire System, Prison Farm, Cumberland Co., Leesburg, N. J. Architect, George S. Drew, State Capitol Building, Trenton, N. J. Owners, State of New Jersey, Trenton, N. J. Plans in progress. Details not decided.

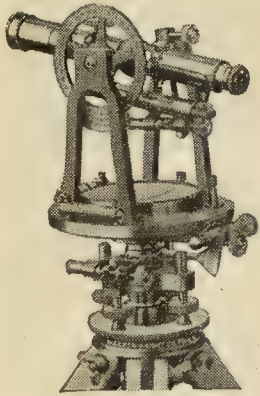
School, Chestnut and Greenwood avenues, Trenton, N. J. Architect, W. A. Poland, School Adm. Building, Trenton, N. J. Owners, Board of Education, City of Trenton, N. J. Brick, 2 and 4 stories (size of lot, 1¾ acres), slag and tin roof (steam heating and ventilating, electric work reserved), concrete and yellow pine floors, metal lath and sash, waterproofing, fire doors, ventilators, hollow tile, metal lockers. Plans in progress.

Cottage, Mercerville, N. J., \$4,000. Architect, H. A. Hill, 40 East State street, Trenton, N. J. Owner's name withheld. Frame, 2 stories, 30x30 feet, tin and slate roof, hot water heating, electric lighting, yellow pine floors. Plans in progress.

Club House (add.), 221 North Warren st., Trenton, N. J. Architect, W. P. Endebruk, American Mechanics' Building, Trenton, N. J. Owners, Knights of Columbus Building Association, on premises. Brick, 2 stories, 46x73 feet, slag roof, vapor vacuum heating, electric lighting, metal lath, tile and marble work, maple floors, metal lockers. Plans in progress.

Industrial Building, Bordentown, N. J., \$10,000. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, Board of Education, Trenton, N. J. Brick and mill construc-

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tion, 2 stories, 87x32 feet, slag roof, steam heating, electric work, wood floors. Plans in progress.

Laundry, Vineland, N. J., \$20,000. Architect, George S. Drew, Capitol Building, Trenton, N. J. Owners, Board of Managers, State Home for Feeble Minded Women, Vineland, N. J. Brick, 1 story, 40x116 feet, slag and slate roof, steam heating, electric lighting, concrete floors. Plans in progress.

Glass Factory, Palmyra, N. J. Architect, Frank V. Nickels, 1539 Real Estate Trust Building, Philadelphia. Owners, Philadelphia Cut Glass Manufacturing Co., care of architect. Brick (mill construction), 1 story and basement, 26x100 feet, slag roof, plank floors, rolled steel sash (steam heating, electric work and plumbing reserved). Plans in progress. Architect will take bids in two weeks.

Apartment House, 7 North Morris avenue, Atlantic City, N. J. Architect's name withheld. Owner's name withheld. Brick and concrete, 3 stories, 52x25 feet, composition roof, pine floors, waterproofing, tile work (hot water heating, plumbing, electric work, cabinet work reserved). Wark-Yardley Co., 1737 Filbert street, have received sub-bids.

School, Milford, N. J. Architect, Clarence B. Dilts, Flemington, N. J. Owners, Board of Education of Holland Township, care of Frank K. Vanderbilt, Milford, N. J. Stone, brick and hollow tile, 2 stories, 45x100 feet, slag roof, mechanical hot air heating system, elec-

tric light, reinforced concrete floors, waterproofing, metal sash. Revised plans in progress.

Freight Station (add.) and Platform, River-ton, N. J. Architects, M. of W. Dept., Pennsylvania Railroad Co., Broad Street Station. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Frame and timber, 1 story, 20x17 feet, tin roof (cement reserved). Plans completed. Owners, care of G. P. Miller, Trenton Division, taking bids.

Lavatory Building (add.), Trenton, N. J. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and steel, 2 stories, 35x33 feet, slag or asbestos roof, steam heating, electric lighting, pine and cement floors (metal lockers and cement reserved). Plans completed. Owners, care of G. P. Miller, Trenton Division, taking bids.

Yacht Club (add.), Inlet, Atlantic City, N. J., \$8,000. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owners, Atlantic City Yacht Club, on premises. Frame, 3 stories, 12x19 feet, slate roof, steam heating, electric lighting, metal lath, tile and marble work. Owners, care of Walter J. Reed, 1315 Atlantic avenue, Atlantic City, N. J., taking bids. Chas. D. Thompson, Michael Young, J. Mathis, Taylor & Son, and the Atlantic Building Co., all of Atlantic City, are figuring.

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treads, tile and marble work, metal lockers, cabinet work. Lowest bidders, McCloskey & Bahls, 1620 Thompson street.

Concrete Dam and Spillway (alt.), Evans Pond, Haddonfield, N. J., \$4,688. Engineers, Remington & Vosbury, Sixth and Market sts., Camden, N. J. Owners, Borough of Haddonfield, Haddonfield, N. J. Reinforced concrete work, two gates, galvanized iron railing. Contract awarded to P. A. Hennesey, Haddonfield, N. J.

Rectory, Berkley avenue and Overbrook avenue, Trenton, N. J., \$8,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, parish of All Saints, on premises. Stone, 2½ stories, 34x44 feet, slag roof, hot water heating, electric lighting. Contract awarded to Ed. La Rue, Trenton, N. J.

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Don't try to do a million dollar business on a two thousand dollar basis.

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Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

NEW JERSEY

Contracts Awarded

Power Station and Coal Trestle, McAfree, N. J. \$50,000. Architect, private plans. Owners, Bethlehem Steel Co., South Bethlehem, Pa. Brick, steel and reinforced concrete, 1 story and basement, 38x75 feet, composition roof, concrete floors, gypsum tile, rolled steel sash, waterproofing, ventilators, checkered iron plates, rolling steel doors (electric work reserved). Contract awarded to Pomeroy Const. Co., 1609 Ranstead street, Philadelphia.

Laboratory Building, Taylor and Quarry Alleys, Trenton. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Department of Conservation and Development, State House, Trenton, N. J. Brick, terra cotta and stone trim, 3 stories, 40x52 feet, asphalt slag and asphalt slate roof, cement and maple floors, waterproofing, fire doors, 1 dumb waiter, metal skylight (heating, lighting and plumbing separate bids). Contract awarded to S. W. Mather & Son, Trenton, N. J.

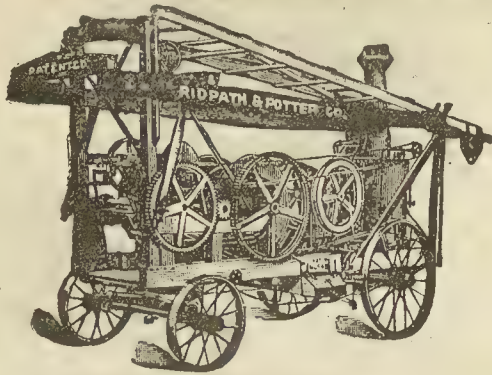
Foundry Building, Elizabethport, N. J.

Architect, private plans. Owners, Singer Manufacturing Co., Elizabeth, N. J. Brick, steel and corrugated iron, 1 story, 200x200 feet, slag roof, rolled steel sash. Contract awarded to Austin Co., Transportation Building, Philadelphia.

Factory (add.), New Brunswick, N. J., \$16,000. Architect, Alex. Merchant, 363 George street, New Brunswick, N. J. Owners, New Brunswick Needle Works, New Brunswick, N. J. Brick, 4 stories, 51x24 feet, composition roof, electric light, metal sash, fire doors (heating and electric work reserved). Contract awarded to Hughes Foulkrod Co., Commonwealth Building.

High School, Bridgeton, N. J., \$125,000. Architect, E. S. School, 31 North Sixth street, Reading, Pa. Owners, School Board, care of Frank Cowan, secretary, Bridgeton, N. J. Stone or brick, reinforced concrete, 2 stories and basement, 215x80 feet, slag roof (steam heat, electric light, plumbing and iron work reserved), metal lath, waterproofing and dampproofing, fire doors, ventilators, safety

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.



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MARYLAND

Construction News

Residence, Middletown, Md., \$15,000. Architect, Ed. Leber, Hay Building, York, Pa. Owner, Charles M. Shank, Middletown, Md. Brick, 2½ stories, 38x48 feet, tile or slate roof, electric lighting, hardwood floors, tile and marble work. Owner ready for bids.

Office Building, First avenue and Fifth st., Canton, Md. Architects, Engineering Department Standard Oil Co., Elizabeth, N. J. Owners, Standard Oil Co. of New Jersey, Pier No. 2, Pratt and Commerce streets, Baltimore. Brick and terra cotta, concrete and steel, 3 stories, 43x71 feet, slag roof (heating, plumbing and lighting fixtures reserved). Owners taking bids, due March 1st. The following are figuring: Price Const. Co., Maryland Trust Building; Morrow Bros., Fidelity Building; Clarence E. Stubbs, 548 Equitable Building; B. F. Bennett Building Co., 123 South Howard street; West Const. Co., American Building; John Waters Building Co., 23 East Center street; Consolidated Eng. Co., Calvert Building, all of Baltimore, Md.

Purifier House, Spring Gardens, Baltimore, Md. Architect, private plans. Owners, Consolidated Gas, Electric Light and Power Co., Lexington and Liberty streets, Baltimore. Brick and concrete, 3 stories, 90x111 feet, slate roof, dampproofing, galvanized iron work (crane, elevators and conveyors reserved). Owners taking bids, due March 2nd. Consolidated Eng. Co., Calvert Building, and B. F. Bennett Building Co., 123 South Howard street, Baltimore, are figuring.

Church, Twenty-fifth street, Baltimore, Md. Architect, G. W. Kramer, 1 Madison avenue, New York City. Owners, Twenty-fifth Street Christian Church, care of Rev. B. H. Melton, 407 Bretton Place, Guilford, Md. Stone, 1 story, slate roof, electric lighting. Plans in progress.

Residence, Roland Park, Md. Architects, Buckler & Fenhagen, 11 East Pleasant street, Baltimore, Md. Owner, Theodore A. Steinmuller, 221 East Baltimore street, Baltimore. Brick, 2½ stories, slate roof, electric lighting. Plans in progress.

Cold Storage Plant, 212 South Eutaw street, Baltimore, Md., \$75,000. Architect, private plans. Owners, Wilson & Co., Forty-first st. and Ashland ave., Chicago, Ill. Concrete, brick and steel, 4 stories, slag roof, metal lath and sash, fire doors, refrigerating plant, elevators. Plans in progress.

Residence, Guilford, Md., \$35,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, William Whitridge, 212 Keyser Building, Baltimore. Brick, 2½ stories, slate roof, electric lighting, fireproofing and dampproofing, stucco work, rein-

forced concrete work, plastering, painting, pluffing, tile and terrazzo work, hardwood floors, dumbwaiters. Plans in progress. Will take bids in about two weeks.

Garage, Linden avenue and Whitelock st., Baltimore, \$10,000. Architect, private plans. Owner, Moses Solmson, care of M. Colmson Fly Screen Co., Bayard and Nanticoke streets, Baltimore. Brick, 1 story, 54x108 feet, slag roof, electric lighting. Plans in progress.

Office Building, 110 East Lexington street, Baltimore, Md. Architect, private plans. Owner, Harry B. Wolf, 204 Courtland street, Baltimore, Md. Brick, 2 or 3 stories, marble trim, slag roof, electric lighting, concrete work, dampproofing, plastering, plumbing, painting, tile work. Plans in progress. Builder, Fred Wright, 204 Courtland street, Baltimore, will take sub-bids.

Store and Apartments, 301 Twenty-ninth street, Baltimore, Md., \$11,000. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Owner, Lemuel T. Cooksey, 1500 Bolton street, Baltimore. Brick and reinforced concrete, 3 stories, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

School (alts.), Linden avenue and Koenig street, Baltimore. Architect, private plans. Owners, City of Baltimore, Md. Stone, general interior and exterior alterations, mill work, slate blackboards, metal ceilings, glazing, painting, steam heating, plastering. Owners have received bids.

Residences (12), Merryman's Lane, Guilford, Md., \$3,000 each. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore, Md. Owners, Guilford Building Co., Guilford, Md. Brick, 2½ stories, slate roof, steam heating, electric lighting, tile bath rooms, hardwood floors, plumbing, plastering. Owners ready for sub-bids on all lines.

Residence and Garage, Guilford, Md., \$25,000. Architect, Wm. D. Landin, 2132 Bolton street, Baltimore, Md. Owner, J. Carroll Fahy, Chamber of Commerce Building, Baltimore, Md. Stone and stucco, 2½ stories, slate roof, hot water heating, tile baths, modern plumbing, hardwood floors, ornamental iron. Cogswell-Koether Co., 406 Park avenue, Baltimore, taking sub-bids.

Garage, Frederick and Loudon avenues, Baltimore, Md. Architect, Otto Kubitz, 807 Gorsuch avenue, Baltimore, Md. Owners, Jarboe Bros., on premises. Concrete and steel, brick and terra cotta, 2 stories, 32x45 feet, slag roof, hot water heating, steel and iron work, steel sash, painting, plumbing, sheet metal. Consolidated Eng. Co., Calvert Building, taking sub-bids.

GRAHAM-CAMPION CO. *Building Construction*

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OTIS BUILDING, PHILADELPHIA

Maryland

Contracts Awarded

Office (alts.), 518 North Charles street, Baltimore, Md. Architect, Theo. W. Pietsch, American Building, Baltimore. Owner's name withheld. Consists of new partitions, plumbing, electric work. Contract awarded to John S. Busick, 2811 Rayner avenue, Baltimore.

Apartment, Windsor Hills, Md. Architect, Theo. W. Pietsch, American Building, Baltimore. Owner, Harold C. Hann, care of Savings Bank of Baltimore, Md., Charles and Baltimore streets. Frame, 2½ stories, stone foundation, 32x66 feet, hot water heating, electric lighting, tile work, oak floors, plumbing and painting. Contract awarded to J. Henry Smith, 1426 Light street, Baltimore.

Carvel Hall (alts. and add.), Annapolis, Md. Architect, E. H. Glidden, Garrett Building, Baltimore. Brick, reinforced concrete and stucco, marble trim, slag and slate roof, gas lighting, skylights, dampproofing, metal lath, dumbwaiter, sheet metal, terra cotta work, cement floors. Contract awarded to H. D. Watts Co., Garrett Building, Baltimore.

Convent, Battery avenue and Gittings st., Baltimore, Md. Architects, Murphy & Olmstead, 1413 H street, Washington, D. C. Owners, St. Mary Star of the Sea Convent, care of Rev. John T. Whelan, 1400 Riverside avenue, Baltimore. Brick, terra cotta, 3 stories, 37x72 feet, slag roof, hot water heating, electric lighting, concrete work, dampproofing, plastering, painting, plumbing, tile work, marble work, vacuum cleaning system. Contract awarded to Monmonier & Sorrell, 1711 McCulloh street, Baltimore.

Residence, Lodge and Garage, Green Spring Valley, Md. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owner, A. Stanley Zell, 11 East Mt. Royal avenue, Baltimore. Frame and stucco, 2½ stories, shingle roof, hot water heating, electric lighting. Contract awarded to John Waters Building Co., 23 East Center street, Baltimore.

Residence, west side of Harford Terrace, north of Parkview, Baltimore, \$3,400. Architect, Malcolm MacCallum, Albion avenue, near Hermosa avenue, Baltimore. Owner, Montebello Park Co., Baltimore. Brick, 2½ stories, 28x30 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Contract awarded to Pliny D. Day, 163 Montebello Terrace, Baltimore, Md.

Miscellaneous Construction News

Church, Rochester, N. Y., \$40,000. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, Grace Evangelical Lutheran Church, Rochester, N. Y. Brick, 1 story and basement and gallery, 90x90 feet, slate roof, vapor heating, metal lath, electric lighting, waterproofing, hardwood and tile floors, tile and marble work. Plans in progress.

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1927 W. Montgomery Avenue, Philadelphia, Pa.

Roanoke, Va. Architect, private plans. Owners, Norfolk and Western Railway Co., Commercial Trust Building. Brick and steel, 1 story, 55x740 feet; 1 story, 50x140 feet, and sheds (2), 12x740 feet, (2) 18x800 feet, and (2) 18x315 feet, Barrett composition roof, asphalt, pine and concrete floors, metal lath,

rolled steel sash, fire doors, pine and concrete floors, cement and brick paving, rolling steel shutters (electric work reserved). Owners taking bids, due March 6th, from Roanoke, Va. Driscoll Co., Stock Exchange Building, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Miscellaneous Contracts Awarded

Warehouse, Fifteenth and Poplar streets, Wilmington, Del. Architect, John D. Thompson, Jr., Ford Building, Wilmington. Owners, New Castle Leather Co., Wilmington, Del. Reinforced concrete and brick, marble trim, 2 or 3 stories, 204x104 feet, composition roof, metal lath, rolled steel sash, waterproofing, fire doors, hollow tile, rolling steel doors (elevators, electric work, plumbing and heating reserved). Contract awarded to Thompson & Binger Co.,

280 Madison avenue, New York City.

Garage (alt. and add.), Tenth and Washington streets, Wilmington, \$10,000. Architect, J. J. Kennedy, Ford Building, Wilmington. Owners, Studebaker Auto Co., Wilmington, Del. Brick, 2 stories, 105x45 feet, slag roof, steam heating, electric lighting, metal ceiling, concrete floors (elevator reserved). Contract awarded to C. J. Dougherty, 3515 West Eighteenth street, Wilmington.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 2545 Aramingo avenue, \$525. John T. Lewis & Bros. Co. (O), on premises. M. Marster Co. (C), 3931 North Fifth street. Steel, 1 story, 20x55 feet.

Dwelling, Westview avenue, east of Wayne avenue, \$13,000. John R. Rue (O). W. O. Springer (C), 1624 Latimer street. Hollow tile, 2 stories, 26x47 feet, shingle roof, hot water heating.

Garage, 5819 Market street, \$1,275. D. N. Sharpe (O and C), Lansdowne, Pa. Brick, 1 story, 64x142 feet, slag roof.

Building, Thirty-sixth and Gray's Ferry road, \$1,850. Barrett Co. (O), on premises. A. L. Carhart (C), 1328 Chestnut street. Brick, 1 story, 18x120 feet.

Garage, 614 South Ninth street, \$3,000. Sol D'Agustino (O), 616 South Ninth street. I. Warshawsky (C), 810 North Marshall street. Brick, 2 stories, 20x57 feet, slag roof.

Garage, Morris street and Winona avenue, \$1,000. Albert A. Jacob (O), on premises. Frank Owens (C), 416 Minona avenue.

Dwelling, Osceola and Rittenhouse streets, \$3,500. D. Mercaldo (O and C), 352 East Price street. Brick, 2 stories, 23x57 feet, slag roof, hot water heat.

Garage, Fairhill and Dauphin streets, \$1,500. Richard Fisher (O), 1930 West Somerset st.

H. Zingnof (C), 2527 North Seventh street. Brick, 1 story, 18x45 feet, slag roof.

Manufacturing Building, Rockland and Stenton avenues, \$60,000. Ferguson Carpet Co. (O), Wayne Junction. Roydhouse-Arey Co. (C), 112 North Broad street. Brick, 2 stories, 100x100 feet, slag roof, steam heating.

Dwellings (6), 1533-43 North Sixtieth st., \$21,500. Michael Kirschner (O and C), 421 Snyder avenue. Brick, 2 stories, 15x24 feet, slag roof, hot water heat.

Dye House, Railroad and Scott Lane, \$6,000. Dobson Mill Co. (O and C), Ridge avenue and Crawford. Stone, 1 story, 38x138 feet.

Apartment House, Sixteenth street, south of Spruce street, \$100,000. Abner H. Mershan (O), Land Title Building. John R. Wiggins Co. (C), Otis Building. Brick and stone, 13 stories, 112x90 feet, slag roof, steam heating.

Building, Sixteenth and Spruce streets, \$75,000. Abner Mershan (O), Land Title Building. John R. Wiggins Co. (C), Otis Building, Sixteenth and Chestnut streets. Brick, 3 stories, 22x22 feet.

Lumber Shed, Glenwood avenue and Dauphin street, \$20,000. George Nass & Son (O), Broad and Vine streets. Stewart Bros. (C), 2546 North Orkney street. Iron, 1 story, slag roof.

Storage Building, Meadow street, north of Ritner street, \$6,500. Charles E. Johnson & Co. (O), 509 North Tenth street. Franklin Eng. and Const. Co. (C), Bulletin Building. Brick, 1 story, 60x70 feet, concrete roof, metal sash.

Dwellings (10), Sixtieth street, south of Larchwood avenue, \$42,000. Edinger & Babb (O and C), 5916 Webster street. Brick, 2 stories, 21x45 feet, slag roof, hot water heating.

Garages and Offices, Sixtieth and Larchwood avenue, \$12,000. Edinger & Babb (O and C), 5916 Webster street. Brick, 2 stories, 35x35 feet, slag roof, steam heating.

Dwellings (3), Almond street, south of Ontario street, \$5,700. F. Pezillo (O and C), 3347 Almond street. Brick, 2 stories, 14x31 feet, slag roof, hot air heating.

Garage, 552 East Leverington avenue. Peter Leibert (O), on premises. E. L. Cuthbertson (C), 334 Roxborough avenue. Stone, 1 story, 20x20 feet, shingle roof.

Storage Building, 2920 to 26 Hartville st., \$8,000. S. Fuld (O and C), 545 East Cambria street. Brick, 3 stories, 65x55 feet, slag roof, hot water heating.

Garage Gricom street, south of Sellers st., \$700. Charles Button (O and C), Frankford avenue and sellers street. Brick, 1 story, 19x17 feet, slag roof.

Light Manufacturing Building, Adams avenue and Leiper street, \$8,000. James Bromley (O), on premises. George Thirsk (C), Adams avenue and Leiper street. Brick, 4 stories, 64x61 feet, slag roof.

Storage House, Fifty-eighth and Bataner avenue. Gulf Refining Co. (O and C), Pittsburgh, Pa. Iron, 1 story, 28x56 feet.

Machine Shop, west side of Salmon street, north of Tioga, \$2,000. Quaker City Iron Works (O and C), Tioga and Edgemont avenue. Iron, 1 story, 50x60 feet.

Alterations and Additions

Amusements, Woodside Park, \$1,500. Woodside Realty Co. (O), Woodside Park. Edward Bender (C), 6014 Torresdale avenue. Repairs. Stable, 708-10-12 Pemberton street, \$300. F. Bartelman (O and C), 725 South Fifth street. Cement floors, repairs.

Offices, 1907 Adams street, \$1,000. William Kane (O), 1911 Adams street. William E. Stone & Son (C), 2069 East Dauphin street. Brick addition, 1 story, 14x95 feet, slag roof.

Storage Building, 2523 Girard avenue, \$300. Mr. Emeling (O), 1826 Columbia avenue. Frank L. Wintz (C), 1618 North Twenty-seventh street. Brick, 1 story, 12x105 feet.

Storage building, Lawrence street, south of Oxford street, \$500. Riegner & Gretz Brewing Co. (O), Germantown avenue and Oxford street. Philip Haibach Co. (C), 1261 North Twenty-sixth street. Repairs.

Manufacturing building, 5119 Stiles street, \$700. Dentists' Supply Co. (O), 220 West Forty-second street, New York City. Philip Haibach Cont. Co. (C), 1261 North Twenty-sixth street. Brick, 1 story, 31x18 feet, slag roof.

Workshop, Wayne avenue and Berkley st., \$900. Pennsylvania Grinding Co. (O), on premises. Wayne Junction Metal Co. (C), 4545 Wayne avenue. Iron, 1 story, 26x38 feet.

Dwelling, 2040 Chestnut street, \$1,400. Dr. C. Griffith (O), 1810 Spruce street. William Ferguson & Son (C), 405 South Twenty-first street. Electric wiring, plumbing, painting.

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Tasker Street Wharf, Delaware River, Philadelphia.

Cafe, 3212 Market street, \$9,280. P. J. Ryan (O), 407 North Thirty-second street. Raith Const. C. (C), 304 West Master street. Two-story addition, 18x46 feet, stone, brick and steel.

Store and dwelling, 909 North Seventh st., \$1,000. S. Bassan (O), on premises. Hyman Krakover Bros. (C), 731 Parrish street. One-story addition, brick, 12x18 feet, slag roof.

Dwelling, 2951 North Nineteenth street, \$400. Frank Yenalumpo (O and C), 2862 Van Pelt street. One-story addition, brick, 10x19 feet, slag roof.

Store, 125-27 South Thirteenth street, \$6,000. Millards Shop, Inc. (O), 127 South Thirteenth street. Lam Building Co. (C), 1001 Wood street. Repairs.

Store and dwelling, 1641 Ruffner street, \$400. Albert Gentel (O), 1503 Columbia avenue. McLaughlin & McNamara (C), 3933 Elser street. Repair fire damage.

Bakery, Fifty-seventh street, north of Race street, \$12,000. Quaker City Cracker Co. (C), South Penn Square Building. Standard Const. Co. (C), 1713 Sansom street. 60x80 feet.

Store and dwelling, 614 Parrish street, \$600. Sarah Slopsky (O), 964 North Sixth street. Morris Rochstein (C), 877 North Seventh street. Two-story addition, 12x10 feet, brick.

Dwellings, 34-36-38 North Sixteenth street, \$5,000. Pennsylvania Railroad Co. (O), Broad Street Station. Joseph Scott (C), 3933 North Eighth street. Repairs.

Dwelling, 819 North Twenty-sixth street, \$1,500. Sarah Stover (O), 1927 North Twelfth street. A. W. Spencer (C), 6449 North Twelfth street. Interior alterations.

Warehouse, 22 and 24 North Delaware avenue, \$25,000. Swift & Co. (O), Philadelphia. A. Raymond Raff Const. Co. (C), 1635 Thompson street. Elevator shaft, repairs.

Carpenter shop, 1417 North Marvine street, \$300. Henry Evans (O and C), 1504 North Marvine street. General alterations.

Leather factory, Third and Wood streets, \$7,300. Janney & Burrough (O), on premises. John N. Gill Co. (C), Otis Building. Elevator shaft.

Store and Dwelling, 2857 North Fifth street, \$430. I. Singer (O), 2629 West Girard avenue. F. I. Wintz (C), 1618 North Twenty-seventh street. New flush bulks.

Dwelling, 2336 East Dauphin street, \$2,000. George Roesing (O), \$1522 East Berks street. Henry Hofmairer (C), 2263 North Fifth st. One-story addition, brick, 13x12 feet.

Store, 5845 Germantown avenue, \$900. Wm. Potter (O), Chelton and Germantown avenues. Wm. Wright (C), 22 Harvey street, Germantown. New bulk alterations.

Office, 1754 North Broad street, \$400. A. F. Bornot (O), Seventeenth and Fairmount avenue. Samuel J. Rea (C), 1608 Fairmount avenue. Repairs.

Dwelling, 533 North Marshall street, \$1,500. John Lawmaker (O), on premises. N. Anaco (C), 721 North Ninth street. Three-story addition, brick, 14x25 feet, gravel roof.

Store and Dwelling, Broad and Cumberland streets, \$2,000. George Sackenmairer Co. (O), Third and Quarry streets. William Easterbrook (C), 146 North Fourth street. New flush bulks, repairs.

Store, 225 South Broad street, \$350. Weightman Estate (O), 1524 Chestnut street. James S. Talley (C), 1931 Market street. Alterations.

Dwelling, 712 North Seventeenth street, \$2,500. John Williams (O and C), Twenty-fifth and Dauphin streets. One-story addition, brick, 12x10 feet, slag roof, new hot water heat.

Tenement House, 3500 Powelton avenue, \$500. James D. Winchell (O), Seventeenth and Sansom streets. Charles L. Gimm (C), 2646 North Twenty-ninth street. Alterations.

Dwelling, 3948 Poplar street, \$500. B. Prager (O), 3948 Poplar street. G. Garehan (C), 416 Girard avenue. Interior alterations.

Dwelling Queen's Lane, west of Wissahocken avenue, \$500. Wm. McLean (O), on premises. John W. Kahl (C), 38 North Broad street. Alterations.

Office, Twenty-fifth and Washington avenue, \$1,000. Phila. Roll and Mach. Co. (O), on premises. I. T. Shoemaker (C), 1324 Walnut street. Change office.

Tenement House, 1515 Tioga street, \$1,500. Kurtz & Gailey (O), 1521 West Venango st. H. M. Dilks (C), 3532 North Fifteenth street. Interior alterations.

Rooming House, 242 South Eighth street, \$900. Paul A. Hoft (O), 245 South Eighth street. Charles Hoffman (C), 210 Dickinson street. Fire escapes.

Manufacturing Building, Howard and Oxford streets, \$900. Gillinder & Sons (O), Tacony, Pa. John F. Davies (C), 1110 Foulkrod street. Alterations.

Dwelling, 1819 East Tioga street, \$700. J. C. Pratt, on premises. John F. Davies (C), 1110 Foulkrod street. Porch, 5x14 feet, tile roof.

Garage, 2101 Sigbert street, \$600. Women's College Hospital (O), Twenty-first and North College avenue. J. Frank Rea (C), 3955 Ogden street. Rear addition, 2 stories, 14x10 feet, slag roof.

Store and Dwelling, 2813 Germantown avenue, \$600. Fred E. Deagler (O), 2817 North Thirteenth street. H. P. Werner (C), 3245 Germantown avenue. Flush bulks.

Apartment House, 929 Clinton street, \$650. The Pennsylvania Co. (O), 519 Chestnut street. Brownsworth & Co. (C), 1611 Sansom street. Fire escape, fireproofing.

Photograph Gallery, 2420 South Broad st., \$700. George Rose (O), on premises. L. Douglass (C), 217 North Sixth street. One-story addition, brick, 11x22 feet.

Store Building, 1320 Chestnut street, \$1,000. The Gramery Investing Co. (O), New York. S. H. Headley (C), Guarantee Trust Building, Atlantic City, N. J. New mezzanine floor.

Dwelling, 1817 South Eleventh street, \$500. Joe Saklave (O), 1031 Snyder avenue. Simon Kapler (C), 2522 South Mildred street. One-story addition, brick, 12x6 feet, slag roof.

Dwelling, 2038 Chestnut street, \$1,950. Dr. Crozer Griffith (O), 1810 Spruce street. Wm. Ferguson & Son (C), 405 South Twenty-first street. Alterations.

Shop, 4300 Wissahickon avenue, \$925. The American Pulley Co. (O), on premises. Steward & Stevens (C), Ninth and Montgomery avenue. Supports for service tanks.

Store and Dwelling, 1711 South Sixth st., \$485. W. Burdick (O), Third and Arch sts. Chas. Glasshofer (C), 5119 Germantown avenue. Fire damage.

Dwelling, 1705-07 Snyder avenue, \$1,075. James Krell (O), 1703 Snyder avenue. A. Krause (C), 950 Jackson street. Flush bulk repairs.

Dwelling, 463 Queen Lane. Michael Kelly (O), Earlbaum Terrace. E. Carmel (C), 332 Queen Lane. One-story addition, brick, 16x6 feet.

Dwelling, 1603 Walnut street, \$3,000. Dr. James Anders (O), 1605 Walnut street. F. T. Mercer Co. (C), 1706 Delancey street. Alterations.

Oil House, West River Drive, \$350. Philadelphia and Reading Railway Co. (C), Twelfth

and Market streets. Iron, 1 story 12x16 feet.

Store and Dwelling, 5006 Germantown avenue, \$600. R. Rauch (O), on premises. D. Wydick (C), 127 Green street. Flush bulks.

Garage, Eighth and Mifflin streets, \$18,500. U. G. I. Co. (O), Broad and Arch streets. Frank Stewart (C), 1619 Sansom street. Three rear additions, 16x21 feet, brick, 1 story; 22x13 feet, 1 story; 14x15 feet, 3 stories, brick.

Store, 231 West Girard avenue, \$600. Frank Dreher (O), 290 East Girard avenue. Chas. Keneck (C), 1443 Dover street. New front flush bulk.

Bakery, Twelfth and Master streets, \$3,600. Philadelphia Home-Made Bread Co. (O), on premises. Dunlop Oven Co. (C), New York City. Bake ovens.

Dairy, Thirty-third and Market streets, \$5,500. Supplee Alderney Dairy (O), on premises. Philadelphia Boiler Works (C), 1737 Filbert street. Brick stack.

Dwelling, 5046 Locust street, \$400. Oliver Snowden (O), on premises. F. C. Koch (C), 6106 Delancey street. Hot water heating system.

Store, 2029-33 Market street, \$1,350. Bartlett Garage Co. (O), Twenty-first and Market streets. F. G. Stewart (C), 1619 Sansom street. Repair fire damage.

Store and Dwelling, 1603 Walnut street, \$1,280. H. Kay Messick (O), Loder Building. H. L. Roberts (C), 228 North Sixteenth st. Low pressure steam heating system.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 19, 1917.—Sealed proposals will be opened in this office at 3 P. M., March 30, 1917, for the construction of the United States post office at Reading, Mass. Drawings and specifications may be obtained from the custodian of the site at Reading, Mass., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

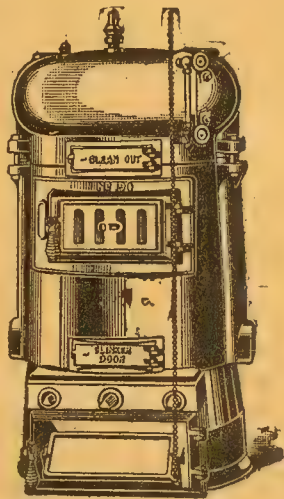
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NAME OF MESH	CLEAR SPAN IN FEET															OVER ALL THICKNESS OF SLAB IN INCHES
	4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	
3-13-075	119	86	63	45	32	22										3 Inches
3-13-075	178	130	96	71	51	36	25									4 Inches
3-13-125	218	164	126	98	76	60	46	36	27							3 Inches
3-13-125	323	245	189	147	116	91	72	56	43	24						4 Inches
3-9-15	395	302	235	185	148	119	95	77	61	33	21					4 Inches
3-9-20	536	413	325	260	211	172	142	117	97	66	44	28				4 Inches
3-9-30	744	578	458	370	303	251	210	176	149	107	77	55	38	25		4 Inches
3-6-40	1049	818	652	529	436	363	305	258	220	162	121	90	67	49	34	4 1/2 Inches
3-6-40	1797	1404	1124	915	757	634	536	457	393	295	225	173	133	102	78	6 Inches

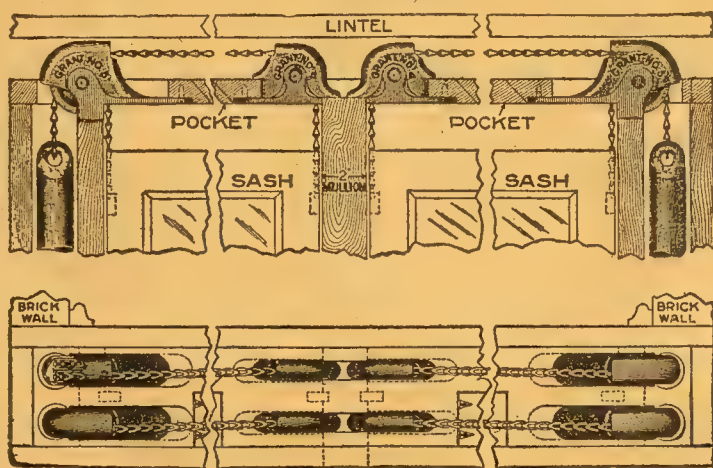
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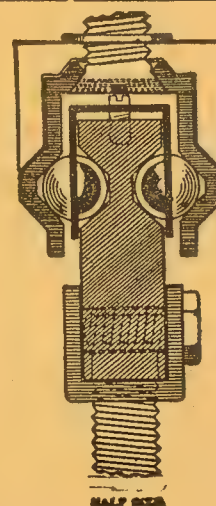
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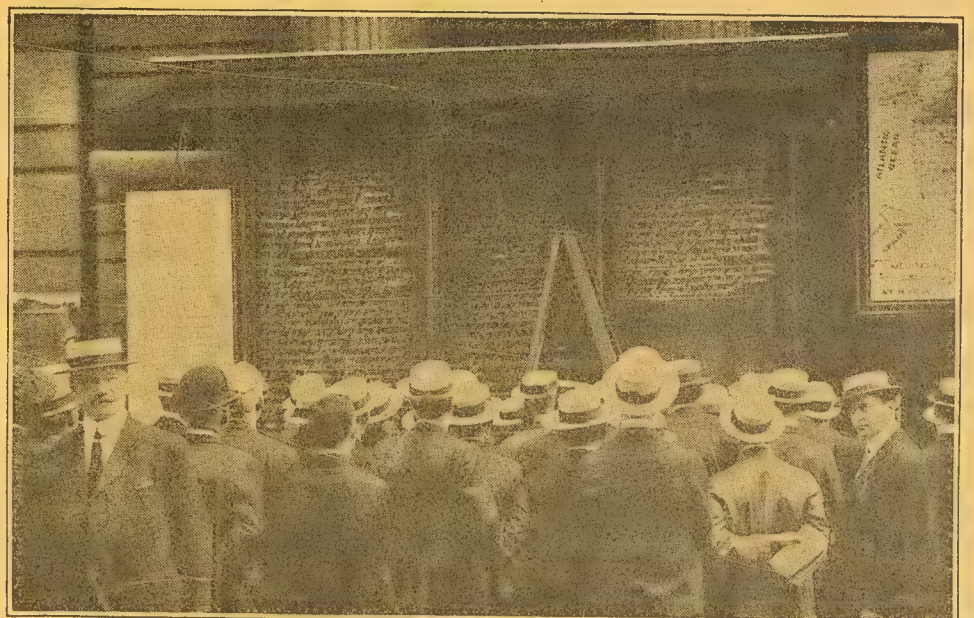
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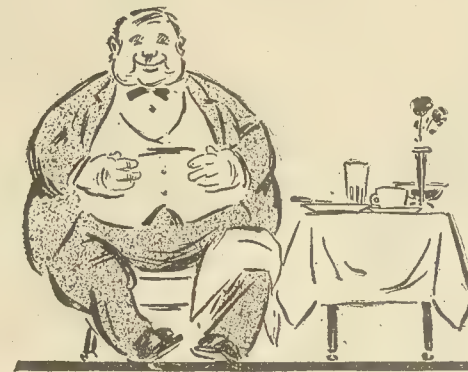
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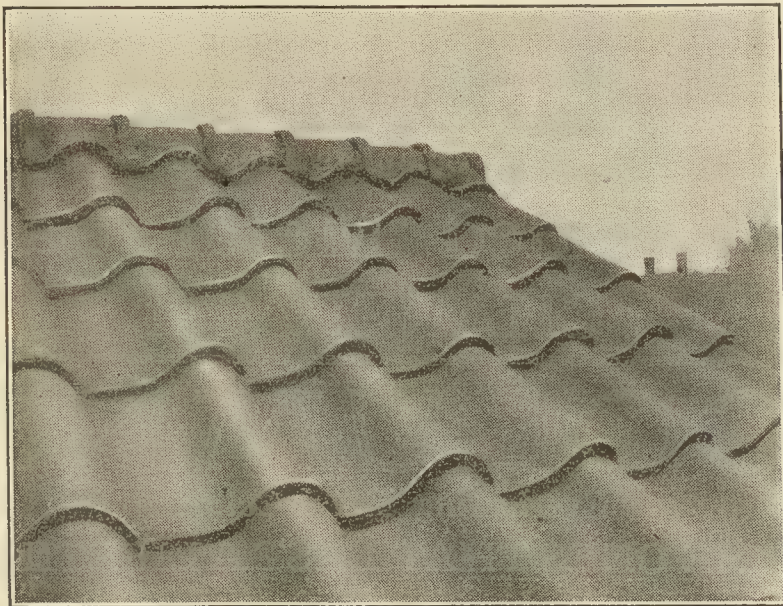


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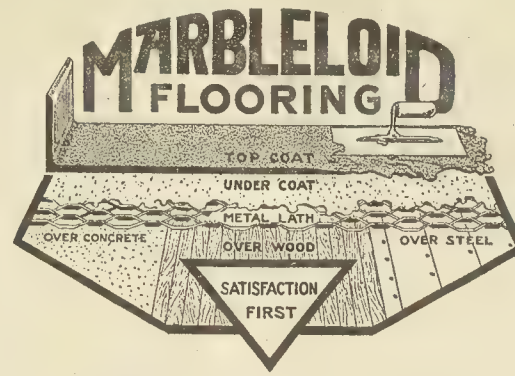
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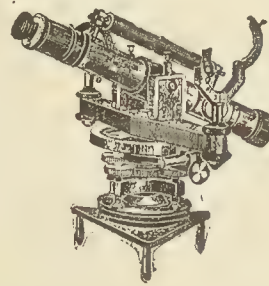
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VOLUME XXXII
Number 10

PHILADELPHIA
March 7, 1917



As The Editor Sees It



IN "The Madonna of the Future," one of the most exquisite of his shorter stories, the late Henry James depicts the mad American painter, Theobald, as saying:

"We are the disinherited of Art! We are condemned to be superficial. We are excluded from the magic circle. The soil of American perception is a poor, little, barren, artificial deposit. Yes! we are wedded to imperfection. An American, to excel, has just ten times as much to learn as a European. We lack the deeper sense. We have neither taste, nor tact, nor force. How should we have them? Our crude and garish climate, our silent past, our deafening present; the constant pressure about us of unlovely circumstance, are as void of all that nourishes and prompts and inspires the artist as my sad heart is full of bitterness in saying so! We poor aspirants must live in perpetual exile."

* * *

THIS little chapter, from a tale I read years ago, was recalled to me this week when in going over the February number of the *Journal of the American Institute* my eyes met, for the first time, extracts, there published, from some of the speeches marking the debate in Congress on the Omnibus Public Buildings Bill.

For the benefit of those who may not know it is perhaps wise here to explain that the Omnibus Public Buildings Bill is the measure under the terms of which the backwoods congressman is enabled to secure a \$200,000 post-office for a \$5,000 cross-roads village.

It is what is known as a "pork" bill. It affords the opportunity, to a certain type of congressman, to go back home, following a session in which he has been delightfully inconspicuous, with an ap-

propriation for a new federal building, and the air of a conquering hero.

* * *

NO special influence is necessary to set the bucolic representative on the trail for an appropriation of this class. The process is as old as Egypt. Its formula is "I'll tickle you and you tickle me." Granted, a sufficient number of congressmen seeking new federal buildings and a bill with items enough to enlist the support of these and the rest is easy.

You stand up for the bill to pull my item through and I stand for it to pull yours through. What's a congressman for if not to get everything that he can for the embellishment of his district? To be sure \$200,000 seems like a whole lot of money to expend upon a post-office in a town scarcely big enough to warrant regular train service—but what of that? Let us get what there is to be gotten while the getting's good. Sermons and soda-water the day after tomorrow.

* * *

MR. MORGAN, representing an Oklahoma district, led the attack, which has now become a regular feature of the pork bill, on the American Institute of Architects. Mr. Morgan objected to a salary of \$7,500 for the supervising architect. He considered \$6,000 ample. Whereupon Mr. Clarke, of Florida, romped into the fray.

"The architects of this country make a great deal more money than that," said Mr. Clarke, of Florida; "you can not get a man who is a first-class man to take that place for \$5,000 or \$6,000. I question whether you would be able to get him for \$7,500. . . . The Committee discussed fixing it at \$10,000. For my-

self I would be perfectly willing to pay \$20,000 a year to a good man who would go into that office and do the work that ought to be done. He can save his salary a dozen times over in the course of a year, because if we get the right man—and we have attempted here to get not only a good architect but a good business man—if we can get that kind of a combination the Government could well afford to pay him \$50,000 a year and save those enormous fees that are paid to outside architects who work upon these great buildings."

* * *

AT another time Mr. Clark said: ". . . . the fight against these small buildings is not the main fight against the bill . . . the fight that has been inaugurated against the bill is not because of a few little buildings in small towns here and there. The American Institute of Architects is the Architectural Trust of the United States. They have been getting the "pork" for all these years. [Applause.] They hung around the committee room for days and weeks, and they wanted to write the legislation in this bill. The Supervising Architect's office has not for years constructed one of these large buildings in the great cities or in the city of Washington. It has always been farmed out to the American Institute of Architects or their members, and they get 6 per cent. on the gross cost of the building. On a \$3,000,000 building they would pull down \$180,000 for drawing the plans and specifications, and I am here to say I believe, and the committee believes, that the United States Government ought to have men competent to do that work in their own public-building office without going outside to hire these people to do it."

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COMMENTING upon these quite characteristic samples of congressional opinion, the *Journal* of the Institute remarks:

"Every architect in the United States is familiar with this sort of injustice, but every citizen may well pause and consider that to-day, in a nation purporting to be great, free, civilized, wealthy, progressive, the architectural destinies of the buildings of the Government rest in such hands! It is humiliating to the point of disgust! And the record of those three days of wasted debate is filled with such allusions, such ignorances, such prejudices, such misrepresentations.

Less than three years ago the same Mr. Clark signed his name to the report of the Public-Buildings Commission, containing the following:

"It is found that the cost of preparing plans and placing work under contract in the Supervising Architect's office is approximately 4 per cent. Three per cent. additional is required to supervise and complete the work."

Competent authorities believe that this total of 7 per cent.—compared with the customary 6 per cent. paid to reputable architects in private practice—would amount to more than 8 per cent. if all items of expense were properly included in making the figures. Fortunately there are members of Congress who understand the real situation and a ray of hope illumines the fight to bring it to an end."

* * *

THERE is something depressing in the thought that in the Congress of the United States men should sit, credentialled from States boasting a fair average of general intelligence, who have so faint a conception of the educative possibilities of a good as opposed to a bad or a merely mediocre national architecture. It is still more depressing to reflect that men, set up as representative of whole communities of our national life, should be so lacking in vision and in perspective as to look with suspicion on the recommendations of a technical body that is broadly representative of all that is highest and best in American architecture.

* * *

TO refer to the Institute as "a trust" is an indictment of American architecture. In no other nation in the world could it be regarded as sane public policy to have buildings of the type of our federal structures confined to the capabilities of one official, however eminent.

If by awarding the commissions, under competition, for designs of the kind to architects in private practice the coun-

try is enabled to secure a higher and more distinguished order of design what earthly objection can be urged, barring the unjustifiable suspicions of men of a low order of intelligence, to adhering to that plan of procedure?

* * *

THE GUIDE is moved to an expression of regret at finding, listed among those who voted in the affirmative on the bill in question, two of Philadelphia's representatives in Congress. We have the utmost confidence that Messrs. Moore and Vare are without sympathy for the narrow, provincial attitude of the members quoted in opposition to the architectural profession. Both of the gentlemen named are liberal patrons of the art and distinctly sympathetic to agencies laboring for the higher ideals in our national development. We beg to suggest to the Institute the wisdom of placing the facts, in this controversy over the question of federal building design, before Messrs. Moore and Vare, and their colleagues from this city, with a view to enlisting their interest.

* * *

AN article on "Regulating the Practice of Architecture as a Profession," from the pen of Mr. Peter B. Wight, presents certain interesting suggestions along the line of State regulation. Says Mr. Wight:

"I have been requested by so many Chapters of the Institute and members of State Boards for Regulating the Practice of Architecture as a Profession, for assistance in formulating new laws or amending existing ones, since the publication of my articles in the *Journal* for October, November and December, that I deem it important to be more explicit in recommendations how to provide for what has for several years impressed me as the most important provision to be embodied in such enactments—that is, for not only eliminating from the profession, but for punishing those who may be found to be guilty of *dishonest practices* in the pursuit of their profession. In my last article I quoted from an address delivered two years ago in which I gave reasons for the necessity for so doing. I quoted from the code of professional practice of the Institute and of the Illinois Society of Architects. Many of the Chapters have adopted and published such codes. Nearly all of the State laws give power to boards of examiners to revoke licenses for "dishonest practices"—without defining what they may consist of—and the Appellate Court of Illinois, without ruling against such penalties being inflicted, has held that the words are plural and that the penalty can not be inflicted for *one* dishonest

practice. That makes it necessary to amend such acts by definitions declaring that one dishonest practice is sufficient for revocation."

* * *

IT is also important that as many as possible of dishonest practices known to be prevalent should be defined in the laws. To that end, I propose that an additional section be added as an amendment to all of such laws. No existing section should be amended, for by so doing court decisions sustaining the constitutionality of such laws might become thereby nugatory. I have therefore drawn up the following explanatory section, to which should be given such a heading as is customary to add amendatory acts in the several States, and which should always be submitted to some competent lawyer before presentation to any State Legislature or General Assembly."

* * *

THE following is suggested as a sample:

A BILL for an Act to amend an act to provide for Licensing (or Registering) Architects and Regulating the Practice of Architecture as a profession as adopted and in force ——— and amended by adding a section to be known as Section ———, as follows:

Wherever the words 'dishonest practice' or 'dishonest practices' occur in this act the same is hereby defined to refer to one or more of such practices; and the following are hereby defined as among dishonest practices, for which the license of an architect may be revoked upon trial or investigation by the State Board, and are hereby declared to be unlawful, for the commission of which the holder of such license (or certificate of registration) may be punished by fine or imprisonment or both after due trial in any court of competent jurisdiction, which fine shall be not less than two hundred (200) dollars, nor more than five hundred (500) dollars, or imprisonment, upon failure to pay the fine, of not less than two nor more than six months, in the discretion of the Court.

1. To be guilty of fraud or misrepresentation in obtaining a license (or certificate of registration).

2. To accept any commission or substantial service or favor from any contractor or anyone connected with the building trades, or from anyone furnishing materials in a building designed or supervised by the architect of the building in which the same are used.

3. To injure intentionally the fair reputation, prospects or business of another architect.

4. To attempt to supplant a fellow ar-

chitect after definite steps have been taken toward his employment.

5. To conspire or attempt to conspire with any other person to violate the building or sanitary laws of any village, city, town, county or state, in which building is regulated by law.

* * *

The Legislative Committee of the Architects of Indiana has formulated and had introduced in the General Assembly of that State a bill for the "Licensing of Architects and Regulating the Practice of Architecture," modeled after the Illinois law. It has added a section, the wording of which is almost exactly copied from that recommended by Mr. Wight as above and suggested in his article in December. This section defines "Dishonest Practices" as referring to one or more of such practices and specifically describes three of them as follows:

(1) "To be guilty of fraud or mis-

representation in obtaining a license to practice architecture."

(2) Exactly as recommended in the "Journal" and marked (2)

and (3) Exactly as given and numbered (5) in the "Journal."

The Committee of Architects in charge of the bill says: "It was thought by our legal counsel that the suggestion that it would be considered a misdemeanor for an architect to injure the reputation of another should be taken care of in an individual suit for damage rather than in the statute; also that a clause referring to an architect supplanting another who had taken steps for procuring a commission or executing it, is one which involves the ethics of the profession and could not be a specific, forceful claim in the statute."

The whole question of adding a new section of similar import to the Illinois law will be considered at a regular meeting of the Illinois Society of Architects to be held very soon, at which legal counsel will be consulted.

EDITORIAL NOTES

Consolidation of the McGraw Publishing Company with the Hill Publishing Company, of New York, to form the McGraw-Hill Publishing Company, controlling between them 11 engineering journals, is announced. These publications are the *Electrical World*, *Electrical Merchandising*, *Electrical Railway Journal*, *Engineering Record*, *The Contractor*, *Metallurgical and Chemical Engineering*, *American Machinist*, *Power*, *Engineering News*, *Engineering and Mining Journal* and *Coal Age*.

The *Engineering News* and the *Engineering Record* are to be merged as the *Engineering News-Record*. James H. McGraw will be president of the new company, Arthur J. Baldwin vice-president and treasurer, and E. J. Mehren vice-president and general manager.

* * *

Edward T. Stotesbury, noted financier, has just paid \$85,000 for a strip of land for a winter home at Palm Beach, near another piece of land which many years ago sold for three dozen eggs.

Mr. Stotesbury's price of \$500 a running foot sets a new high mark for Palm Beach real estate. Mr. Stotesbury has been a visitor at Palm Beach every winter since he spent his honeymoon there five years ago. The ground has a frontage of 176 feet on Lake Worth.

The purchase was made from Mayor E. M. Dimick, whose family in 1875 bought a mile frontage of property here

running a half-mile deep from lake to ocean, for \$89. This was a few years after Charles Moore, who died here seven years ago, had purchased the site of the Royal Poinciana Hotel for three dozen eggs, afterwards selling the land for \$4,000. Richard Croker recently refused \$45,000 for less than an acre which he bought four years ago from John R. and Edward Bradley, on the ocean front.

* * *

Assistant City Solicitor Coyne went before Judge Shoemaker and reopened the rule for a preliminary injunction against Harrison Bros. & Co., Inc., to restrain the operation of the concern's plant at Gray's Ferry road near Thirty-fifth street, in such a manner as to cause a nuisance to the neighborhood. Odors and fumes from the plant, it is complained, again permeate the atmosphere. Recently, when the company was haled into court, representatives agreed to make changes in the operation of the plant and close down portions of it, so as to abate the nuisance complained of. "But on Monday," said Mr. Coyne, "the plant was going at full blast and the sulphuric fumes were as bad as ever."

Judge Shoemaker fixed March 9 as the return day for the rule.

* * *

Officials of the Reading Railway Company announced the award of contracts

for replacing the bridge carrying the Port Richmond Branch tracks over Ridge avenue at Laurel Hill. The Seaboard Construction Company will do the grading and masonry. L. F. Shoemaker & Co. the structural steel work, and James Kelly the waterproofing. The plans call for a new three-track through-plate girder structure, with concrete floor.

* * *

Calbert Townley, assistant to the president of the Westinghouse Electric Company, attended a hearing of the jury of view to determine damages for a change of Island road to accommodate the proposed big plant near Essington. The hearing was held in the City Hall.

It was generally supposed the new plant would employ from 5,000 to 6,000 men; but Mr. Townley informed the jury that the company's plant on the Delaware River front when completed will cover 500 acres of land, and will give employment to between 20,000 and 25,000 men, provided the road is changed as desired.

The fact that Essington, Edystone and Chester will be unable to accommodate this large number of additional workmen, means that fully one-half of them will seek homes in Philadelphia and become a part of its rapidly-increasing population.

The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

BUILDERS' GUIDE

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FIRE WASTE AND CITY PLANNING

The National Fire Protection Association when assembled in Chicago for its twentieth annual meeting, called attention to the disastrous fires of the past few months which destroyed whole sections of cities in the South and elsewhere and which further emphasize the need for better building construction and the avoidance of wooden shingle roofs and other combustible materials in the exterior of buildings.

The association heartily commends the growing movement for city planning as likely to produce better conditions as to building heights and congested areas, and provide the open spaces and broad avenues, which, beside their human and esthetic values, are excellent checks to sweeping fires.

In its warfare against the needless sacrifice of human lives and property by fire the association advocates the following measures:

1. The adoption by municipalities of the Standard Building Code of the National Board of Fire Underwriters to the end that fire resistive building construction may be encouraged, the use of inflammable roof coverings prohibited, adequate exit facilities from buildings assured, and interiors so designed and fire-stopped as to make easy the extinguishment of fires therein.

2. The adoption by all States of minimum building requirements for the protection of State and County hospitals, asylums and similar institutions outside city limits and of small communities in which the establishment and enforcement of a building code is impracticable.

3. The enactment by each State of the fire marshal law advocated by the Fire Marshals' Association of North America to the end that official investigation may be made of the causes of all fires, preventable fires may be eliminated by public education, and the crime of arson stamped out.

4. The adoption of the association's suggested ordinances providing for the systematic inspection of all buildings by city fire marshals or local firemen to insure the vigorous enforcement of rules for cleanliness, good housekeeping, and the maintenance of safe and unobstructed exits, fire-fighting apparatus and other protective devices.

5. The enactment of ordinances similar to that of Cleveland, Ohio, fixing the cost of extinguishing preventable fires upon citizens disregarding fire prevention orders, and a more general legal recognition of the common law principle of personal liability for damage resulting from fires due to carelessness or neglect.

6. The wider general use of the automatic sprinkler as a fire extinguishing agent and life saver and the more general adoption of the fire division wall as an important life saving exit facility.

7. A careful study of the technical surveys of cities made by the engineers of the Committee on Fire Prevention of the National

Board of Fire Underwriters covering the items of water supplies, their adequacy and reliability, fire department efficiency, fire alarm systems and conflagration hazards; and of the possibility of co-operation among neighboring cities through mutual aid and the standardization of hose couplings.

8. The adoption of the association's suggested laws and ordinances for State and municipal regulation of the transportation, storage and use of inflammable liquids and explosives.

9. The universal adoption and use of the safety match and legislation prohibiting smoking in all parts of factories, industrial and mercantile buildings except in such fire-proof rooms as may be especially approved for the purpose by fire departments.

10. The education of children and the public generally in careful habits regarding the use of fire.

In the furtherance of these objects we appeal for the co-operation of all citizens. We ask them to help in the dissemination of our valuable literature and in the use of the standards of fire protection so carefully worked out by our committees to the end that the lives and substance of our people shall not continue to be dissipated by a reckless and easily preventable waste.

INTERCHANGING EMPLOYEES.

System Inaugurated Which Permits the Better Running of Apartments.

Efficiency in building management is becoming more pronounced all the time, and continually new refinements are being put into effect. One of the leading real estate firms, which makes management of apartment houses a specialty, conceived the idea that, should employees of the building be interchangeable, the owner would be benefited, cheaper cost of operation would result and the tenants would receive better service. All these conditions would produce more rentable buildings and do much to relieve families from shifting from one house to another.

The concern employs as superintendents men who are well versed in a given trade. In one house a steamfitter is employed; in another, a man who understands elevators; in a third, a practical plumber, and so on throughout the list. These employees have standard salaries, which in itself simplifies the running of the various buildings.

Should elevator trouble develop in house A, and the elevator expert be located in house B, he is immediately shifted to house A, until the trouble has been overcome. In the same way if the hot water plant in house C needs attention, and the superintendent in charge is not qualified to make the necessary repairs, a man suitable to correct the trouble is placed in the building until the trouble is straightened out.

There is another advantage in the system,

because in addition to co-operation of this branch of the force the men, as individuals, learn the various peculiarities of the various buildings and automatically increase their knowledge and thereby become more valuable to the concern.

In houses of the better class, where high rentals are paid, it is of the utmost importance that repairs be made promptly and efficiently. Should an elevator become disabled, the utility elevator would have to be brought into service for the tenants. As a rule, this elevator is well finished, but is known throughout the house as the service elevator, and the tenants dislike using it themselves or having their friends compelled to ride on it. Therefore the sooner the repairs are made, the less dissatisfaction will result.

As a superintendent of a large building in the Park avenue section said recently: "Buildings are like human beings, in a sense—each one has its peculiarities. Take two houses that I know of, which are erected from the same plans, having similar elevators, steam and hot water plants, etc.: These houses are entirely different and must be run by people who understand the little troubles. In one house, for instance, the coal bill was almost twenty-five per cent. more than in the other; and there was a great deal of trouble with the owners, as they controlled both properties. There did not seem to be any good or reasonable explanation as to why the variance should exist, until it was realized that the elevation of the surrounding buildings varied in the two cases. A different grate was put in; another mixture of coal tried, and the results became satisfactory. This is only one case, but it serves to illustrate the point."—"New York Real Estate Record."

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pippin that there is either something better on the market or your specialty isn't worth a kopeck noway.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrimper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

The man "who doesn't believe in advertising" can't understand why the other fellow gets the business.

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church. Twenty-seventh and Indiana avenue, Philadelphia. Architects, Stackhouse & Street, 129 South Fifth street, Philadelphia. Owners, Diamond Street Baptist Church, care of Rev. Geo. E. Rees, 2227 Venango street, Philadelphia. Stone and plaster, 1 story and basement, 50x85 feet, slate roof, pine floors, electric lighting. Plans in progress. Architects will take bids in two weeks.

Residence (alt. and add.), Prospect avenue and New street, Chestnut Hill. Architects, Bissell & Sinkler, 1218 Chestnut street, Philadelphia. Owner, Dr. Wm. H. Jefferys, 100 W. Walnut lane, Germantown. Brick and plaster, 2½ stories, addition 2 stories, 40x35 feet, tin roof, plumbing, metal lath, tile work, pine and cement floors (hot air heating and electric work reserved). Architects have received bids.

Church (fire repairs), Thirty-fifth and Midvale avenue. Architect, private plans. Owners, Evangelical Lutheran Church of the Redeemer, Rev. G. H. Bechtold, 5304 North Water street, Philadelphia. Stone, 1 story and basement, 41x71 feet, slate roof, pine floors, electric lighting. Owners have received bids.

Garage and Repair Shop, Tenth and Chelten avenue, Philadelphia. Architect, private plans. Owners, The Texas Co., Morris Building, Philadelphia. Brick, reinforced concrete and steel, 2 stories, 45x150 feet, slag roof, steam heating, electric lighting, concrete floors, rolled steel sash, fire doors, metal lockers, tile work, rolling steel shutters (elevators and gasoline storage system reserved). Owners taking bids, due March 10th. Conneen Const. Co., 1737 Filbert street, are figuring.

Residences (15), Front street, above Wyoming avenue, Philadelphia. Architect, private plans. Owners, Robert Ingram & Son, 4805 North Front street, Philadelphia. Brick, 2 stories, 17x40 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners taking sub-bids on (5) at once, sub-bids on balance (10) about April 15th.

Apartment House, north side of Race street, west of Thirty-fourth street, Philadelphia. Architect, Albert F. Schenk, Ozel Estate Trust Building, Philadelphia. Owner, Ralph H. Robb, 415 Spring Garden street, Philadelphia. Brick, stone and steel, 4 stories, 75x150 feet. Preliminary plans in progress.

Garage, Eighteenth and Ridge avenue, Philadelphia. Architect, Geo. S. Idell, 34 S. Sixteenth street, Philadelphia. Owners, Ridge Avenue Farmers Market, on premises. Brick and steel, 2 stories, 60x170 feet, slag roof, steam heating, electric lighting, cement and pine floors (gasoline storage system reserved). Architects taking bids, due March 12th at 3 P. M. F. A. Havens, 845 N. Nineteenth st.; E. E. Hollenback, Inc., 1904 Brandywine st.; Henry P. Schneider, 3713 Old York road; Wark Yardley Co., 1737 Filbert street; J. Sims Wilson Co., 1125 Brown street; H. E. Baton, Twelfth and Sansom streets; Monaghan & Losse, 3016 Chestnut street; Abel Botoms & Sons, 2611 Walnut street; Pringle Borthwick, 8018 Germantown avenue; Harrison C. Rea Co., 1027 Wood street; W. O. Springer, 1624 Latimer street, and James H. Wells, Heed Building, are figuring.

Sunday School, Fifty-fourth and Spruce streets, \$75,000. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners,

Bethany Temple Presbyterian Church, on premises, Rev. Asa J. Ferry, Dr. Edw. W. Beach, 5401 Spruce street, chairman building committee. Stone, 2 stories and basement. Sketches completed.

Garage, Fifty-seventh, near Baltimore avenue, Philadelphia. Architect, private plans. Owner, Francis H. Thole, Penn Square Building, Philadelphia. Lessee, Harry P. Reed, 1139 South Fifty-third street, Philadelphia. Brick and steel, 1 story, 75x185 feet, slag roof, cement and pine floors (heating reserved), electric lighting. Owner taking sub-bids.

Stores (int. alt.), 900 Chestnut street, Philadelphia, \$10,000. Architects, Honon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Lea Estate, 700 Sansom street, Philadelphia. Brick, marble and reinforced concrete, cement and maple floors, hollow tile, metal lath, terrazzo work, tile and marble work. Blot & Baust, 421 East Fifty-eighth street, New York City, taking sub-bids.

Store (alt.), southeast corner Seventeenth and Venango streets, \$500. Architect, Wm. H. Wooters, 816 West Allegheny avenue. Owners, Hendricks Hardware Co., on premises. Consists of new bulk front, tile and marble work (glass and paints reserved). Owners have received bids.

Bank and Office Building, 1518 Walnut st., Philadelphia. Architects selected, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Ridge Avenue Bank, Spring Garden and Ridge avenue. Brick, stone, steel and terra cotta, 39x120 feet, stories and details not decided.

Residence, La Mott, Pa. Architects, Wagner & Casner, Drexel Building, Philadelphia. Owner, C. Crittenden Pryor, 1433 S. Twentieth street, Philadelphia. Brick and shingle, stone face, 2 stories, 19x42 feet, shingle roof, hot water heating, electric lighting, cement floors. Architects taking bids, due March 8th. Specht & Sperry, Heed Building, and Wm. J. Robinson, 1508 Lombard street, are figuring.

Church, Tenth and Northeast Boulevard, Philadelphia. Architects, Ralph B. Bencker and Price & McLanahan, Bellevue Court Building. Owners, First Christian Church, Rev. Irving E. Chenoweth, 1418 Euclid avenue, Philadelphia. Stone, brick and concrete, 2 stories and balcony and basement, 84x50 feet, 25x25 feet, tin, slate and slag roof, steam heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, cement and maple floors. Architects taking revised bids. H. E. Gran Co., 1707 Sansom st.; E. E. Hollenback, 1804 Brandywine street, and Pringle Borthwick, 8018 Germantown avenue, are figuring.

Residence and Garage, Pelman road, above Horter street, Germantown. Architect selected, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, W. E. S. Dyer, Land Title Building, Philadelphia. Brick, 2½ and 1 story. Details not decided. Preliminary plans in progress.

Factory, northwest corner Fourth and Cherry streets, Philadelphia. Architects selected, Furness, Evans & Co., Franklin Bank Building. Owners, Stead, Miller & Co., on premises. Brick and concrete, 60x90 feet, slag roof, cement and plank floors, metal lath, fire doors (plumbing, electric work, steam heating, elevators reserved). Preliminary plans in progress.

Residences (28), Logan, Philadelphia. Architect, E. Allen Wilson, 1208 Wilson street. Owner, name withheld. Brick and stone, 2 stories, 15x40 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Residences (8) and (13), vicinity of Sixty-seventh and Woodland avenue. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x32 feet and 15x38 feet, slag roof, hot water heating, hardwood floors. Plans in progress.

Factory (alt. and add.), 482-84 North Fifth street. Architects, Andrew J. Sauer & Co., 905 Chestnut street, Philadelphia. Owners, Chas. J. Sauer & Co., 905 Chestnut street, Philadelphia. Owners, Chas. F. Datz & Co., on premises. Consists of general alterations, 2 stories, 40x106 feet, slag roof, concrete work, steam heating. Architects have received bids.

Store and Apartment (alt.), 1626 N. Broad street, Philadelphia. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, name withheld. Brick and stone, 4 and 3 stories, steam heating, electric lighting, hardwood floors, tile work. Plans in progress.

Hotel (alt. and add.), 4244 Ridge avenue, Philadelphia. Architects, Andrew J. Sauer & Co., 905 Chestnut street, Philadelphia. Owner, Fairmont Inn, on premises. Brick (additions to garage and kitchen), general interior alterations, bar work. Preliminary plans completed.

Store and Dwelling (alt.), 1431 Arch street, Philadelphia. Architect, private plans. Owner, J. E. Burt, 1407 Filbert street, Philadelphia. Brick (new front), 4 stories, tin roof, cement and pine floors, flush bulk. Owner has received bids.

Store and Dwelling (alt. and add.), 1230 N. Fifty-second street, \$4,000. Architect, private plans. Owner, Arthur J. Dyer, 5242 Lancaster avenue, Philadelphia. Brick, 3 stories, hot water heating, electric lighting, pine floors, new bulks. L. J. Matthias, 11 N. Fifty-second street, taking bids.

Store (alt.), 1010 Chestnut street, Philadelphia, \$5,000. Architect, private plans. Owners, Wm. Fellman & Co., 1029 Chestnut street, Philadelphia. Brick and stone, 3 stories, pine floors, metal bulks, office partitions, cabinet work, store fixtures, tile and marble work. Owner is sub-letting.

Residence and Garage, Queen Lane Manor, Philadelphia. Architect, Samuel D. Hawley, 2d, Queen Lane Manor, Philadelphia. Owner, L. Harry Richards, Jr., Real Estate Trust Building, Philadelphia. Brick and plaster, 2½ stories, 27x47 feet; garage, 1 story, 10x14 feet, slate roof, hot water heating, electric lighting, hardwood floors, cement work. Architect taking bids, due March 10th. Fred Elvidge & Son, 5522 Germantown avenue; Keller Bros., 404 Harmon road, Roxborough; Metzger & Fisher, Denckla Building; A. L. Pretz & Son, Heed Building; and Ward-Yardley Co., 1737 Filbert street, are figuring.

Residence (alt. and add.), 2019 Walnut st., Philadelphia. Architect, Edwin H. Fetterolf, 1524 Chestnut street, Philadelphia. Owner, Dr. Edmund B. Piper, 1805 Pine street, Philadelphia. Brick, 5 stories, 2 story rear addition, 13x40 feet, slag and tin roof, cement and

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pine floors, (1), dumbwaiter, tile and marble work (electric work and heating reserved). Architect has received bids.

Residences (5), Twenty-sixth and Moore streets, Philadelphia. Architect, private plans. Owners, Chas. A. Shetzline & Co., Broad and Passyunk avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners ready for sub-bids.

Forge Shop, Bath and Jenks streets, Kensington, Philadelphia. Architect, private plans. Owners, Penna. Forge Co., Wakeling and Bermuda streets, Philadelphia. Brick, 1 story, size of lot 12 acres. Work contemplated for near future.

Sponging and Repair Pit, Engine Yard, West Philadelphia Yard, south of Spring Garden street, Philadelphia. Architects, M. of W. Dept., Penna. RR. Co., Broad Street Station. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Concrete and steel. Owners have received bids.

Fire Tower (alts.), Sixth and Columbia avenue, Philadelphia. Architects, Heacock & Hokansen, Bailey Building, Philadelphia. Owner, Henry H. Sheip Mfg. Co., on premises. Consists of alterations to fire tower, concrete and steel. Architects have received bids.

Bank and Office Building, northeast corner Broad and Walnut streets, Philadelphia, \$5,000,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Fidelity Trust Co., 325 Chestnut street, Philadelphia. Brick, stone, steel, reinforced concrete and terra cotta, 235x175 feet. Architect selected. Details not decided.

Factory Building, 1220-24 Sansom street, Philadelphia. Architect, not selected. Owners, Bailey, Banks & Biddle Co., 1213 Chestnut street, Philadelphia. Reinforced concrete, brick and steel size of lot, 49x80 feet. Work contemplated.

Stores and Dwelling (alt.), 1611-13-15 Susquehanna avenue, Philadelphia. Architect, Wm. H. Wooters, 816 Allegheny avenue, Philadelphia. Owner, C. A. Rowell, on premises. Brick, 3 stories, 40x45 feet, electric lighting, metal lath, hardwood and pine floors, new bulks, tile and marble work (plumbing and heating reserved). North Philadelphia Trust Co., Germantown and Erie avenues, have received bids.

Factory, Loudon and Stenton ave., Wayne Junction, Philadelphia. Architect, Kern Dodge, Chestnut street, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets, Germantown. Brick and concrete and pine floors, metal lath (plumbing, heating and electric work reserved). Plans in progress.

Police Station and Patrol House (alt.), 615 East Girard avenue. Architect, Louis E. Marie, 825 City Hall. Owners, Bureau of Police, Dept. of Public Safety, Wm. H. Wilson, Room 215, City Hall. Millwork, paint-

ing, slate and tin roof, pine floors (plumbing, heating and electric work separate bids). Owners taking bids, due March 13th at noon. Jas. Connor, 1317 Arch street; W. W. Anstine & Co., 1218 Filbert street; E. C. Durell, 1713 North Twenty-fourth street; Gaffney Const. Co., 1927 Poplar street; Geo. Dobbin, 414 S. Forty-first street; H. H. Wehmeyer, 1004 Lehigh avenue, are figuring.

Fire Station (alt.), No. 5, 752 S. Sixteenth street, Philadelphia. Architect, Louis E. Marie, 825 City Hall, Philadelphia. Owners, Bureau of Fire, Dept. of Public Safety, Wm. H. Wilson, Director, Room 215, City Hall, Philadelphia. Consists of new reinforced concrete floors, plumbing, millwork, electric lighting. Owners taking bids, due March 13th at noon. Jas. Connors, 1317 Arch street; W. W. Anstine & Co., 1218 Filbert street; E. C. Durell, 1713 North Twenty-fourth street; Gaffney Const. Co., 1927 Poplar street; Geo. Dobbin, 414 South Forty-first street; H. H. Wehmeyer, 1004 Lehigh avenue, are figuring.

Machine and Electrical Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Washington, D. C. Steel frame. Owners taking bids, due April 21st at 11 A. M.

Garage, Cliveden and Morton streets, Germantown. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Roger B. Curtis, 100 East Cliveden street, Germantown. Stone, 1 story, 27x21 feet, slate roof, cement floors, electric lighting. Architect taking bids, due March 8th. I. A. Dunkelberger, 71 East Herman street; Harry H. Cluck, 170 East Walnut lane; Wm. C. Wright, 22 Harvey street; Chas. A. Heinke, 160 West Sharpnack street, all of Germantown, are figuring.

Residences (41), Sixtieth and Chester avenue, Philadelphia. Architect, private plans. Owner, Benj. Isenberg, 4144 Leidy avenue, Philadelphia. Brick, 2 stories, 16x56 feet, slate and slag roof, hot water heating, combination lighting, hardwood floors, tile work. Owner ready for sub-bids. Work to start in a month.

Parochial School (add.), Forty-eighth and Wyalusing avenue, Philadelphia. Architects, Henry D. Dagit, Son & Co., 411 Walnut street, Philadelphia. Owners, Our Mother of Sorrows parish, care of Rt. Rev. Bishop John J. McCort, Forty-eighth and Lancaster avenue, Philadelphia. Stone, brick and steel, 3 stories and basement, 90x61 feet, slate and slag roof, reinforced concrete and maple floors, electric lighting, metal lath, waterproofing and dampproofing, fire doors, hollow tile, marble work (steam heating reserved). Architects taking bids, due March 15th. Melody & Keating, 1322 Race street; Cramp & Co., Denckla Building; Wm. R. Dougherty, 1610 Sansom street; Wm. J. McShane, 417 South Thirteenth

street, and James Doyle's Sons, 878 North Forty-sixth street, are figuring.

Artillery Case Shop and Instrument Department Building (adds.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, Col. George Montgomery, Frankford Arsenal. Brick, concrete, steel, stone trim, 1 and 2 stories, 199x49 feet; 4 stories, 63x29 feet, maple floors, hollow tile, 1 elevator, rolled steel sash, waterproofing, safety treads, metal window guards (heating and lighting reserved). Owners taking revised bids, due March 8th. Ketcham & McQuade, 1029 Brown street; H. H. Wehmeyer, 1004 Lehigh avenue; Austin Co., Transportation Building; W. W. Anstine, 1218 Filbert street, Philadelphia, and Connors Bros. Co., 64 West Eighty-eighth street, New York City, are figuring.

Shipbuilding slips, No. 2 and No. 3, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government Bureau of Yards and Docks, Navy Department, F. R. Harris, Chief, Washington, D. C. Concrete, wood piles, structural steel. Owners ready for bids, due March 19th at 11 A. M.

Residences (28) and store (1), Rockland street, between Second and Third streets. Architect, private plans. Owner, John Schmunk, 612 W. Cambria street. Brick, 2 stories, 15½ ft. x 53 ft., slag roof, hot water heating, electric lighting, hardwood floors. Will start work in a few days. Owner is subletting.

Factory (add.), 1219 Carpenter street, Philadelphia. Architect, H. W. Castor, St. Girard Bldg., Philadelphia. Owner, Main Belting Co., 1219-41 Carpenter street. Brick, steel and terra cotta, 4 stories, 50x105 feet, slag roof, pine floors, metal lath, rolled steel sash, dampproofing, fire doors (plumbing, heating, elevator, electric work, sprinkler, composition floors and office partitions, reserved). Architect taking bids, due March 9th at noon. John R. Wiggins & Co., Otis Bldg.; H. E. Baton, 12th and Sansom streets; James H. Wells, Heed Bldg.; F. G. Stewart, 1619 Sansom street; William R. Dougherty, 1610 Sansom street; F. E. Wallace, 1220 Chancellor street, Philadelphia, and Cowell Dilworth, Bryn Mawr, Pa., are figuring.

Apartments (2), 52nd street near Parkside avenue. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner James Egnal, 61st and Regent streets, Philadelphia. Brick, 3 stories, 22x80 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Plans about to be started.

Garage (alt.), Thompson street below 32d street. Architects, Mills & Van Kirk, 614 Harrison Building, Philadelphia. Owners, Penn Grain Feed Co., on premises. Brick, 2 stories, 20x52 feet, electric lighting, ventilators, cement floors. Architects taking bids, due March 8th. Herman Voigt, 1251 North 28th street; A. R. Raff Construction

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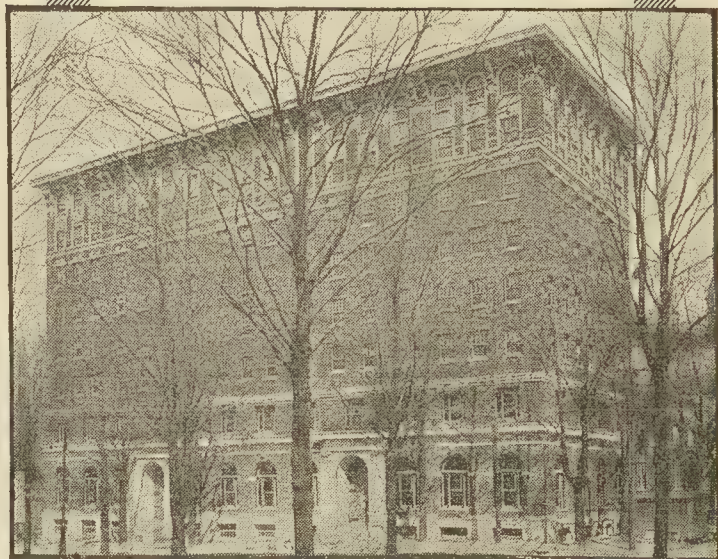
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National City Bank, Grand Rapids, Mich.
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Gen. Contractors: Hauser, Owen, Ames Co.
Roofing Contractors: Eikenhout & Sons Co.



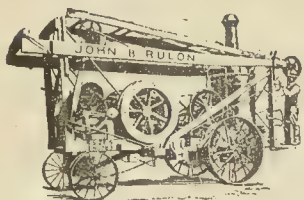
Caulfield Building, Grand Rapids, Mich.
Architects: Wernette, Bradfield & Mead
General Contractors: Horner & Kelly
Roofing Contractors: Eikenhout & Sons Co.



Y. M. C. A. Building, Grand Rapids, Mich.
Architects: Robinson & Campau
Gen. Contractors: Hauser, Owen, Ames Co.
Roofing Contractors: Geo. Vander Broek Co.



Pantlind Hotel, Grand Rapids, Mich.
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1606 Cherry street; F. B. Davis, 240 North
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man
and Interior and Exterior Fitter.

Warehouse, Orthodox street and Frankford creek, \$8,500. Architect, private plans. Owners, Thompson-Adams Leather Co., on premises. Brick, 1 story, 125x53 feet, slag roof, cement floors, metal lath, metal skylights, rolling steel doors. Contract awarded to E. R. Hall & Bro., 34 South Seventeenth street, Philadelphia.

Office Building, Frankford Yards, Philadelphia, \$10,000. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Brick, 2 stories, 15x55 feet, slag roof, steam heating, electric lighting, composition, cement and pine floors, tile and marble work. Contract awarded to Lincoln H. Smith, Hale Building, Philadelphia.

Garage, 810-22 North Twenty-sixth street, Philadelphia, \$20,000. Architect, private plans. Owners, Finnesey & Kebler, Twenty-sixth and Parrish streets. Lessee, L. E. Watson Co., 1540 Callowhill street. Brick and concrete, 1 story, 121x100 feet, slag roof, cement floors. Contract awarded to Herman Voigt, 1251 North Twenty-eighth street, Philadelphia.

Machine Shop and Warehouse, 943-53 North Front street, Philadelphia, \$31,000. Architect, private plans. Owner, Herman L. Winterer, 908 Beach street, Philadelphia. Brick and concrete, 3 stories, 70x115 feet, slag roof, (heating and lighting reserved), concrete and plank floors, metal lath, rolling steel sash, fire doors, ventilators, skylights, rolling steel doors. Contract awarded to Stewart Bros., 2526 North Orkney street, Philadelphia.

Store Building (alts.), 1514-16 Market st., \$9,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, D. Becker, on premises. Consists of new front and general interior alterations, brick work, hardwood floors, tile and marble work, electric lighting. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Store Building (alt.), 21-23 South Third st.,

Philadelphia. Architect, Conrad F. Neff, Heed Building, Philadelphia. Owner, Mrs. Frost, care of architect. Brick, 3 and 1 story, slag roof, steam heating, gas lighting, pine and cement floors. Contract awarded to Tuve Esbionson, 1700 North Sixtieth street, Philadelphia.

Store and Dwelling (alt. and add.) and Garage, southwest corner Ninth and South streets, Philadelphia, \$8,000. Architect, Julius J. Anderson, 736 Drexel Building, Philadelphia. Owner, Henry Jacoby, on premises. Brick, 3 stories; garage, 1 story, 23x18 feet, slag roof, pine and parquet floors, cement and marble work, metal window guards. Contract awarded to Max Chipin, Dittman and Wilmot sts., Philadelphia.

Store (alt.), 23 South Seventeenth street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, Louis Dalsimer, Real Estate Trust Building, Philadelphia. Brick, 4 stories, plastering and painting, metal lath, cement and pine floors, millwork (electric work, steam heating, metal bulks, tile work, parquet floors reserved). Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Bridge, Laurel Hill, over Ridge ave. (Richmond Branch). Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Steel and concrete, waterproofing, 3 track span. Contracts for grading and masonry awarded to The Seaboard Const. Co., Witherspoon Building, and steel work to L. F. Shoemaker & Co., Harrison Building, both of Philadelphia.

Boiler House, Wheat Sheaf Lane and Coral street, Frankford, \$35,000. Architect, private plans. Owners, Robert H. Foerderer, Inc., Franklin Bank Building, Philadelphia. Brick, steel and concrete, 1 story, 102x54 feet, and 40x82 feet, fire doors (electric work, steel sash, asbestos roof, machinery, foundations

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and floors reserved). Contract awarded to George Kessler Construction Co., Drexel Building, Philadelphia.

Apartment House, Juniper and Latimer streets, Philadelphia, \$100,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, Main Realty Co., care architects. Brick, steel concrete, stone trim, 5 stories, 36x70 feet, slag roof, metal sash, hollow tile, fire doors, tile and marble work (heating, plumbing, electric work and ele-

vators reserved by architects). Contract awarded to George Kessler Construction Co., Drexel Building, Philadelphia.

Machine shop, 4012-14 Ridge avenue, Philadelphia, \$3000. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, Philip Golden, on premises. Brick, 1 story, 35x65 feet, slag roof, cement floors, electric lighting. Contract awarded to Maurice Golden, Cambridge Building, Chester, Pa.

PENNSYLVANIA

Construction News

Residence, Southampton, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Wm. B. Slatko, care of architect. Stone and frame, 3 stories, 35x48 feet, slate roof, hot water heating, electric light, hardwood floors. Plans completed. Architect ready for bids in two days.

Motion Picture Theatre, Harrisburg, Pa. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, P. Magaro, care of Regent Theatre, Harrisburg, Pa. Brick, steel and terra cotta, 1 story. Preliminary sketches in progress.

Hunting Stable, Godfrey road, Radnor, Pa. Architects, Adams & Manning, 1700 Walnut street, Philadelphia. Owner, Robt. L. Montgomery, 131 South Fourth street, Philadelphia. Stone and plaster, 1 story, 200x50 feet, n hsielgroof. Plans in progress. Architects ready for bids in a week.

Cottage, Godfrey road, Radnor, Pa. Architects, Adams & Manning, 1700 Walnut street, Philadelphia. Owner, Robt. L. Montgomery, 131 South Fourth street, Philadelphia. Stone and plaster, 2 stories, 25x35 feet, shingle roof, hot air heating, electric lighting, pine floors. Architects have received bids.

Automobile, Wagon and Implement Storage Building, Andalusia, Pa. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Henry F. Micchell Co., 518 Market street, Philadelphia. Frame, 1 story, 75x25 feet, flexatile roof and walls, concrete work. Architect has received bids.

Residence (alts.), Valley Forge, Pa. Architect, Harry G. McMurtrie, 1012 Walnut st., Philadelphia. Owner, John R. K. Scott, Morris Building, Philadelphia. Consists of sundry

interior and exterior alterations, alterations to lighting system. Owner will supervise construction.

Gate Lodges (2), Laverock, Pa., \$25,000. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Drexel Building, Philadelphia. Stone, 2½ stories, 35x45 feet, slate roof, hot air heating, pine and concrete floors, metal lath, (electric work reserved). Architects taking bids, due March 9th. Specht & Sperry, Heed Building; Wm. H. Carr, 6911 Germantown avenue; Pringle Borthwick, 8018 Germantown avenue; Wm. R. Dougherty, 1610 Sansom st.; F. E. Wallace, 1220 Chancellor street, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Department Store, Fifth and Edgmont avenue, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and terra cotta, 4 stories, 52x72 feet. Plans in progress. Too early for details.

Residences (32), Bethlehem, Pa. Architects, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, Thomas Dunn, Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 20x28 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Plans in progress.

Residences (10), Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owners, Kinney & Cawley, Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 20x25 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Plans in progress.

Residences (5), Bethlehem, Pa. Architect,

A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, F. F. Speck, Bethlehem, Pa. Brick and hollow tile, 2½ stories, 26x35 feet, slate roof, hot water heating, electric lighting, yellow pine floors. Plans in progress. Owner will build.

Laundry, Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, T. A. Squier, Easton, Pa. Brick, 1½ stories, 45x90 feet, slag roof, steam heating, concrete and hardwood floors, electric light. Plans in progress.

Preparatory School, Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem, Pa. Owners, Bethlehem Preparatory School, Bethlehem, Pa. Brick, 3 stories, 40x50 feet, steam heating, electric light, hardwood floors, metal lath, waterproofing, metal lockers. Plans in progress.

School House and Auditorium (alt. and add.), Fort Washington, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of Upper Dublin Township, Montgomery County, Pa., Wm. E. Aichele, chairman, building committee. Stone and brick, 2 and 1 story addition, 82x55 feet, slag and slate roof, maple, cement and pine floors, metal lath, ventilators, metal ceilings, metal weatherstrips (heating, ventilating, plumbing and electric work reserved). Architect has received bids.

Sunday School (add.) and Manse, Chester, Pa. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Bethany Presbyterian Church, Chester, Pa. Hollow tile and plaster, Sunday School, 1 story addition, 50x50 feet; manse, 3 stories, 16x60 feet, slate roofs. Plans about completed.

Power House, Yeadon, Delaware County, Pa. Architect, Jesse T. Hoekstra, 3612 South Eighty-fourth street, Philadelphia. Engineer, W. W. Hibberd, Hale Building, Philadelphia. Owner, Theodore Presser, 1710 Chestnut st., Philadelphia. Brick and steel, 1 story, 70x70 feet, slag roof, cement floors. Plans will be started in a few days.

Residence, Walsh and Pine roads, Bethayres Pa. Architect, Harry Parker, 129 South Fifth

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street, Philadelphia. Owner, Dr. Wm. R. Sutch, 2638 North Fifth street, Philadelphia. Brick, hollow tile and plaster, 2½ stories, 45 x 29 feet, slate and tin roof, hot water heating, cement and oak floors, electric light, tile work; garage, 1 story, 23x16 feet. Architect taking additional bids, due as soon as possible. The following are figuring: McCloskey & Bahls, 1620 Thompson street; Jas. B. Flounders, 1329 Arch street, and J. Paul Emrey, North Wynnefield, Philadelphia.

Office and Apartments, Nazareth, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, A. G. Connoley, Nazareth, Pa. Brick, 3 stories, 40x60 feet, slag roof, steam heating, electric lighting, wood floors, metal lath, tile and marble work, terrazzo work. Owner ready for bids.

Garage, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, H. A. R. Dietrich, South Bethlehem, Pa. Brick and hollow tile, 3 stories, 60x100 feet, composition roof, concrete floors, electric lighting, gasoline storage system. Owner taking bids. Robt. Rathburn, Butz & Clader, Ochs Construction Co., and J. A. Nagle, all of Allentown, Pa., are figuring.

Factory Building (add.), Allentown, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem. Owners, International Motor Co., Allentown, Pa. Brick, concrete and steel, 1 and 2 stories, 200x455 feet, steam heating, electric light, composition roof, concrete floors, metal sash (sprinklers, (1) elevator, heating reserved). Owners taking bids Stein & Co. and Butz & Clader, Allentown Pa., are figuring.

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Bungalow, Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, P. E. Whitesell, Bethlehem, Pa. Stone and shingle, 1½ stories, 35x45 feet, shingle roof, yellow pine floors. Owner ready for bids.

Residence (alt. and add.), Eleventh and Madison streets, Wilmington, Del. Architect R. C. Tindall, 914 Orange street, Wilmington. Owner, Dr. W. Springer, 910 Washington st., Wilmington, Del. Brick or hollow tile, 3 stories, 25x75 feet, slag or slate roof, steam heat, electric light, metal lath, hollow tile, tile and marble work. Architect has received bids.

Apartment House, Bethlehem, Pa. Architect, J. R. Wilt, 47 South Fourth avenue, Bethlehem, Pa. Owner, A. D. Wilt, Third avenue and Broad street, Bethlehem, Pa. Brick and stone trimmings, 3 stories, tile and stucco work, Carey flexible cement roof, combination lighting. Owner taking bids.

Residences (5), east Sixth street, South Bethlehem, Pa. Architect, J. R. Wilt, 47 S. Fourth avenue, Bethlehem, Pa. Owner, Philip J. Byrne, Fourth and Spruce streets, South Bethlehem, Pa. Brick, 2 stories, Carey's flexible cement roof. Owner taking sub-bids.

Apartment House, east Fourth street, South Bethlehem, Pa. Architect, J. R. Wilt, 47 S. Fourth avenue, Bethlehem, Pa. Owner, Chas. O. Bartis, Second and Spruce streets, Philadelphia. Brick, 3 stories, 35x62 feet, Carey's flexible cement roof, electric lighting, tile work. Owner taking bids.

Bungalow, Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. A. Smith, Bethlehem, Pa. Frame, 1 story, 40x60 feet, shingle roof, hot water heating, hardwood floors, electric lighting. Owner taking bids.

Residence (alt. and add.), Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, P. H. Hampson, Bethlehem, Pa. Brick, 2½ stories, 30x60 feet, electric light, hardwood floors. Owner taking bids.

School, Bethlehem, Pa., \$60,000. Architect, E. H. Bitting, Wilbur Trust Building, Bethlehem, Pa. Owners, Board of Education, Bethlehem, Pa. Brick, 2 stories, 200x50 feet, slag roof, maple floors, electric lighting, tile work (heating reserved). Owners ready for bids, due March 23d.

Bath House, South Bethlehem, Pa., \$25,000. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, P. Rull, Fourth and South Bethlehem, Pa. Brick, 3 stories, 120x33 feet, slag or slate roof, steam heating, electric lighting, tile and terrazzo floors, electric lighting, waterproofing, metal lockers, tile work. Plans in progress.

Greek Church, South Bethlehem, Pa., \$18,000. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, name withheld. Brick, 1

story and basement, 30x40 feet, slate roof, electric lighting, yellow pine floors. Plans in progress.

Isolated Ward Hospital (Children's Hospital), South Bethlehem. Architect, E. H. Bitting, South Bethlehem. Brick, 1 story and basement, 30x60 feet, slate roof, steam heating, electric lighting, yellow pine floors. Plans in progress.

Store Building and Garage, Bethlehem, Pa. Architect, John W. Reilly, Buckley Building, Allentown, Pa. Owner, name withheld. Brick and hollow tile, 2 stories, 20x80 feet, slag roof, hot water heating, electric lighting, metal lath, yellow pine floors, gasoline storage system. Revised plans in progress.

Residences (6), South Bethlehem, Pa. Architect, J. W. Reilly, Buckley Building, Allentown, Pa. Owner, name withheld. Brick, 2 stories, 70x44 feet, slag roof, combination lighting, yellow pine floors, hollow tile. Plans in progress.

Residence, Catasauqua, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Owen Patzinger, Catasauqua, Pa. Frame, 2½ stories, 40x35 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress.

Residence, Easton, Pa. Architect, Geo. A. Morganstein, Easton, Pa. Owner, G. M. Well-er, Porter block, Easton, Pa. Brick, 2½ stories, 28x40 feet, slate roof, hot water or hot heating, electric lighting, hardwood floors, tile work. Plans in progress.

Store (alt. and add.), 2740 North Fifth st., Philadelphia. Architect, J. J. Weitzenfeld, Easton, Pa. Owner, L. Jacobson, on premises. Brick, 2 stories, 22x140 feet, slag roof, hot air heating, wood floors, combination lighting, iron beams. Plans in progress.

Residence, Bethlehem, Pa., \$10,000. Architect, Wm. M. Michler, Drake Building, Easton, Pa. Owner, H. Lagenheim, Bethlehem, Pa. Terra cotta and stucco, 2½ stories, 40x50 feet, slag roof, steam heating, electric lighting, hardwood floors, tile work. Plans in progress.

Store and Residences (5), Ninth and Fairview streets, Reading, Pa. Architects, Stetler & Mengle, Wyomissing, Pa. Owners, Goodrich & Keefer, care of architects. Brick, 2½ stories, tin roof, hot air heating, electric light, yellow pine floors. Architects taking sub-bids.

Garage, Wyomissing, Pa., \$2,000. Architect, F. A. Muhlenberg, Colonial Trust Building, Reading, Pa. Owner, John C. Baker, Wyomissing, Pa. Brick, 2 stories, 40x30 feet, slag roof, hot water heating, electric lighting, cement floors. Plans in progress.

Residence (int. alt.), 113 South Fifth street, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owner, Chas. C. Miller, on premises. 2½ stories, 26x85

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feet, electric light, new plumbing, hardwood floors. Plans in progress.

Motor Cycle Garage (alt.), 840 Court street, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owner, John J. Neubling, on premises. Brick, 2 stories, 30x16 feet, slag roof, electric lighting, yellow pine floors. Plans in progress.

Church (alt.), Ninth and Walnut streets, Reading, Pa. Architects, Muhlenberg Bros., 511 Penn street, Reading, Pa. Owners, St. Paul's R. C. Church, on premises. New front, asbestos shingle or slate roof, tile work. Plans in progress.

Church (alt. and add.), Shenandoah, Pa. Architect, A. A. Ritcher, 31 North Sixth st., Reading, Pa. Owners, St. John's Evang. Lutheran Church, Shenandoah, Pa. Brick veneer and stone trim, asbestos shingle roof, new tower. Plans completed. Architect ready for bids.

Office Building, Fourth and Spruce streets, Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Merritt Bros., Inc., Fourth and Spruce streets, Reading, Pa. Brick, 2 stories, 32x16 feet (roofing and floors reserved by owners), vapor vacuum heating, electric lighting. Owners taking bids, due March 9th. Chas. Schlegel, Beard Const. Co., Focht & Son, Elmer Dampman and Adam spotts, all of Reading, Pa., are figuring.

School and Auditorium, Sharon Hill, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Holy Spirit Parochial School, care of Rev. Joseph P. Monville, on premises. Brick, steel and concrete, stone trim, 2 stories and basement, 125x38 feet and

45x17 feet, slag roof, cement, maple and pine floors, metal lath, waterproofing and damp-proofing (heating and electric work reserved). Architect taking bids, due March 12th. Melody & Keating, 1322 Race street; John McShain, 1610 North street; Wm. R. Dougherty, 1610 Sansom street; Monaghan & Losse, Inc., 3016 Chestnut street; Doyle & Co., 1509 Sansom street; Ketcham & McQuade, 1029 Brown street, Philadelphia; Daniel Sullivan, 622 South Conestoga street, are figuring.

Residence (alt. to Apartment House), Lansdowne, Pa. Architect, Frank Allison Hays, 1524 Chestnut street, Philadelphia. Owner, Mrs. Seymour Eaton, care of architect. Stone and plaster, 3 stories, 70x50 feet, shingle roof, hardwood floors (hot water heating and electric work reserved). Architect taking bids, due March 11th. Chas. E. Bell, 223 South American street; M. Atlee Ermold, Manhattan Building; Herman Niemeyer, 1524 Chestnut street; J. Howard Roberts and Joseph L. Lowden, both of Lansdowne, Pa., are figuring.

Parish House (add.), Gulph Mills, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Episcopal Church of Gulph Mills, Gulph Mills, Pa. Stone, 1 additional story, 38x13 feet, 34x26 feet and 41x13 feet, slate roof, pine floors (plumbing, heating, electric work reserved). Architects taking bids, due March 10th. Driscoll Co., Stock Exchange Building, Philadelphia, are figuring.

Store and Apartment, Third and Franklin streets, Chester, Pa. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, name withheld. Brick and terra cotta, 3 stories, 16x70 feet, slag roof, hot water

heating, electric lighting, tile work. Plans about to be started.

Residence (alt. and add.), Doylestown, Pa. Architects, Savory & Scheetz, Stephen Girard Building, Philadelphia. Owners, W. Atlee Burpee, Jr., 475 North Fifth street, Philadelphia. Stone, frame and plaster, 2½ stories, addition, 16x25 feet, slate roof, cement and pine floors, metal lath (tile work, electric work, plumbing, hot water heating, parquet floors reserved). Architects taking bids, due March 12th at noon. F. B. Davis, 240 North Sixteenth street; Specht & Sporry, Heed Building; John E. Kearney, 327 North 63rd street; David D. Nyce, Doylestown, Pa., are figuring.

Residences (4), Parkside, Delaware County, Pa. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, Charles Lucio, care architect. Frame and stucco, 2 stories, 17x50 feet, shingle roof, hot water heating, electric lighting, pine floors. Plans nearly completed. Architect will take bids in a few days.

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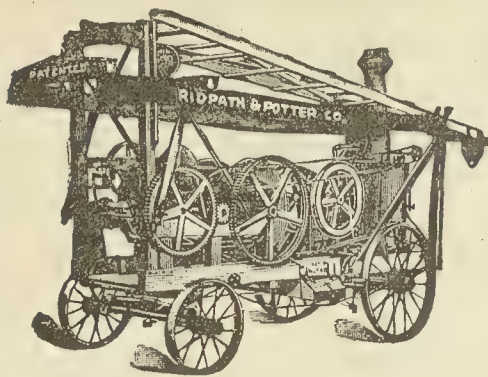
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PENNSYLVANIA

Contracts Awarded

Double Houses (4), Bethlehem, Pa., \$3,750. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, A. Weiner, Broad street, Bethlehem, Pa. Brick and hollow tile, 2½ stories, 16x50 feet, slate roof, hot water heat, yellow pine floors, electric light, hollow tile. Contract awarded to C. A. Schwartz, Bethlehem, Pa.

Residence, Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, B. E. Cole, Bethlehem, Pa. Brick, 2½ stories, 25x40 feet, slate roof, hot water heating, electric lighting, yellow pine floors, electric lighting. Contract awarded to F. F. Speck, Bethlehem, Pa.

Passenger and Freight Station, Douglasville, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Brick, frame and stucco, 1 story, 73 x 29 feet, tile and tin roof, maple and pine floors. Contract awarded to W. H. Wiand, Pottstown, Pa.

Residence (alt. and add.), Ryers avenue and Myers road, \$4,000. Architect, Addison H.

Savery, Cheltenham, Pa. Owner, Francis R. Taylor, Stephen Girard Building, Philadelphia. Stone, 2½ stories (add. 1 story), shingle roof, tile work (plumbing, electric work and hot water heating reserved). Contract awarded to Krewson Bros., Glenside, Pa.

Residence and Garage, St. Davids, Pa., \$24,000. Architect, Furness, Evans & Co., Franklin Bank Building, Philadelphia. Owner, Dr. O. H. Pepper, 1811 Spruce street, Philadelphia. Stone, 2 stories, 30x90 feet, slate roof, hardwood floors, tile work (plumbing, electric work reserved). Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Residence (alt. and add.), Radnor, Pa., \$18,000. Architects, Wilson Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, Mrs. Albert B. Kelley, St. Davids, Pa. Stone and timber, 2½ stories, shingle roof, electric lighting, waterproofing and dampproofing, pine floors, cement floors. Contract awarded to Frank H. Mahan, Ardmore, Pa.

NEW JERSEY

Construction News

Residence (alt.), Pacific and Ohio avenues, Atlantic City, N. J. Architects, Bissell & Sinkler, Bailey Building, Philadelphia. Owners, Mercer Home, Atlantic City, N. J. Brick, stone, concrete, 3½ stories, 108x104 feet, wing 120x36 feet, tin roof, cement and pine floors, metal lath, ventilators, terrazzo work (heating and elevator reserved). Architects have received bids.

Filtration Plant, New Brunswick avenue, Trenton, N. J. Engineer, E. H. Earnshaw, Newark, N. J. Owners, Public Service Gas Co., Newark, N. J. Brick, 2 stories, 18x36 feet, slate roof, steam heating, electric lighting, concrete floors. Architect taking bids, due March 9th. Wm. Musson, J. H. Morris, American Mechanic Building, and Burton & Burton, all of Trenton, N. J., are figuring.

Bulkhead and Basin, Trenton, N. J. Engineer, J. W. Thompson, Broad Street Bank Building, Trenton, N. J. Owners, City of Trenton, J. R. Fell, City Commissioner, City Hall, Trenton, N. J. Timber and concrete, 1120 feet long. Engineer has received bids.

Residence, Pennington avenue, Trenton, N. J. Architects, Kleeman & Fowler, Second

National Bank Building, Trenton, N. J. Owner, Chas. Shissler, Trenton, N. J. Brick, 2½ stories, 40x30 feet, slate roof, hot air heating, electric lighting, hardwood floors. Plans in progress.

Residence (alt. and add.), Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, George Washington, Riverton, N. J. Plaster on present frame structure, 2½ stories, 28x60 feet, new hot water heating, electric lighting, tile baths, plumbing. Plans about completed. Architect will take bids in about one week.

Restaurant (add.), Tenn. avenue and Boardwalk, Atlantic City, N. J. Architect, J. C. Westerville, New York City. Owners, Childs Co., Atlantic City, N. J. Brick, terra cotta and tile, 1 story, 50x200 feet, slag and tile roof, steam heating, electric lighting, yellow pine floors. Architect taking bids. C. D. Thompson, Atlantic City, figuring.

School, Ohio avenue, Atlantic City, N. J. Architects, H. A. Stout & Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board of Atlantic City, Atlantic City, N. J. Brick and concrete, 3 stories,

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35x85 feet, slag roof, steam heating, electric lighting, metal lath, composition floors, fire doors. Plans in progress.

Bulk Head and Set Wall, Princeton avenue and Beach, Atlantic City, N. J. Architect, S.

G. Dobbins, 10 S. Tenn. avenue, Atlantic City, N. J. Owner, Mrs. A. R. Mauser, Atlantic City, N. J. Reinforced concrete, 100 feet long, 25 feet wide. Architect will be ready for bids in about two weeks.

NEW JERSEY

Contracts Awarded

Manufacturing Building, Second and Clinton streets, Camden, N. J., \$36,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Strandwitz & Scott. Brick and concrete, 2 stories, 60x150 feet, slag roof, wing 18x80 feet (steam heating, electric lighting, elevators and plumbing reserved), metal lath and sash, waterproofing, fire doors, ventilators, metal window guards, metal lockers. Contract awarded to Geo. Bachman, 19 North Thirtieth street, Camden, N. J.

Warehouse, Second and Federal streets, Camden, N. J., \$30,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Crane Co., 245 Master street, Philadelphia. Brick, steel and concrete, 2 stories and basement, 40x125 feet, slag roof, concrete floors, ventilators (heating, plumbing and electric work reserved). Contract awarded to H. E. Grau Co., 1709 Sansom street.

Factory, Pennington avenue, Trenton, N. J.,

\$280,000. Engineers, Stone & Webster, Boston, Mass. Owners, Westinghouse Lamp Co., 160 Broadway, New York City. Reinforced concrete, 4 stories, 80x500 feet, slag roof, concrete floors, electric lighting, fire doors, sprinklers, (2) elevators. Engineers Stone & Webster, Boston, Mass., will sub-let all contracts for superstructure.

Store (alt.), 12-14 East State street, Trenton, N. J. Architects, Wm. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, Harry Stout, on premises. Consists of interior alterations and new store front. Contract awarded to Scott & Day, Trenton, N. J.

Crane Runway, Delaware avenue and Pearl street, Camden, N. J., \$2,000. Architect, private plans. Owners, Concrete Steel Co., on premises. Sheet metal and lumber, enclosing runway. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

MARYLAND

Construction News

College Buildings, College Park, Md., \$170,000. Architects, Flourney & Flourney, 1517 H street, Washington, D. C. Owners, Maryland Agricultural College, College Park, Md. Brick, steel and concrete, 3 stories and basement, 57x200 feet, 1 story, 55x66 feet, 1 story, 55x190 feet, slate roof, steam heat, electric wiring, plastering, plumbing. Bids due March 12 at 2.30 P. M. The following: P. F. Gormley Co., Union Trust Building; Melton Construction Co., Real Estate Trust Building; Arthur L. Smith Co., Woodward Building; Boyle Robertson Construction Co., Evans Building, all of Washington, D. C.; Cogswell-Koether Co., 406 Park avenue; Consolidated Engineering Co., Calvert Building; B. F. Bennett Building Co., 123 South Howard street; D. M. Andrews Co., Mt. Vernon avenue and 26th street; Henry Smith & Sons, Light and German streets; Cowan

Building Co., 106 West Madison street; Singer-Pentz Co., 600 Equitable Building; Price Concrete Construction Co., Maryland Trust Building; T. B. Stanfield & Co., 212 Clay street; Edw. Brady & Son, 1109 Cathedral street; Morrow Bros., Fidelity Building, all of Baltimore, Md.; H. D. Watts Co., Riggs Building, Washington, D. C., and Garrett Building, Baltimore, Md.; Norcross Bros. Co., Worcester, Mass.; W. H. Fissell & Co., Marbridge Building, and James Stewart & Co., 30 Church street, both of New York City, are figuring.

Grain Elevator, Baltimore, Md., \$4,000,000. Engineer, A. C. Shand, Broad Street Station, Philadelphia, Pa. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia, Pa. Brick, steel and concrete, 15 stories, capacity 3,000,000 bushels. Work contemplated. Too early for details.

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Hotel, Pen-Mar, Pa. Architect, Walter M. Gieske, Gunther Building, Baltimore, Md. Owners, Blue Mountain Land Co., Abbott Morris, Norfolk, Va. Brick, stone. Too early for details.

Passenger Station (alts. and adds.), Calvert Street Station, Baltimore, Md., \$16,000,000. Engineer A. C. Shand, Broad Street Station, Philadelphia, Pa. Owners, Pennsylvania R. R. Co., Broad Street Station, Philadelphia, Pa. Consists of general alterations and additions to Calvert Street Station. Reinforced concrete and steel, pier, 935x120 feet, concrete deck and steel warehouse, 925x110 feet, and 200 feet dock.

Store (alts. and adds.), 16 West Lexington street, Baltimore, Md. Architect, Louis Levi, Munsey Building, Baltimore, Md. Owner, David Bachrach Studio, 16 West Lexington street, Baltimore, Md. Consists of interior alterations, leaded glass, tile work, plumbing, electric lighting. Bids due March 9th. The following: Herbert & Prodoehl, 431 Munsey Building; John Hiltz & Sons, 3 Clay street; John Hughes, Jr., 104 East Lexington street; W. T. Childs, 14-16 West Twentieth street; B. F. Bennett Building Co., 123 South Howard street, are figuring.

Bathhouse, Bay Shore, Baltimore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore, Md. Owners, Maryland Railways Co., Continental Building, Baltimore, Md. Frame, 1 story, 50x310 feet. asbestos roof, steam heat, electric lighting, painting, plumbing, cement floors, glazing, laundry equipment. Bids due March 9th. The following: Singer-Pentz Co., Equitable Building; John Waters Building Co., 23 East Center street; Consolidated Eng. Co., Calvert Building; R. B. Mason, 308 West Madison street; C. E. Stubbs, Equitable Building; West Construction Co., American Building; Monmonier & Sorrell, 1711 McCulloh street; Cowan Building Co., 106 West Madison street; Herbert & Prodoehl; 431 Munsey Building; C. W. Littleton & Son, 4313 Liberty Heights avenue; E. Eyring & Son, 800 South Third street, are figuring.

Residence, Guilford, Baltimore, Md., \$25,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owner, Wm. Whitridge, 212 Keyser Building, Baltimore, Md. Brick, 2½ stories, stucco, slate roof, electric lighting, iron work, reinforced concrete, dampproofing, plastering, painting, plumbing, interior tile, terrazzo work, hardwood floors, dumbwaiters. Bids due March 10th. The following: G. Walter Tovell, Eutaw Place & McCulloh street; Roland Park Co., Roland Park; Cowan Bldg. Co., 106 W. Madison street; John Hiltz & Son, 3 Clay street; B. F. Bennett Building Co., 123 South Howard street; Gladfelter & Chambers, 36th street and Roland avenue; Charles L. Stockhausen Co., Gay and Walter streets; Edw. Brady & Son, 1109 Cathedral street; Morrow Bros., Fidelity Building, are figuring.

Residence, Springdale and Clarendon avenues, Forest Park, Baltimore, Md., \$4000. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore, Md. Owner, B. E. Heinz, 611 West North avenue, Baltimore, Md. Frame, 2½ stories, 28x30 feet, shingle roof,

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hot water heat, electric lighting. Owner is taking bids.

Store and Apartments, 301 29th street, Baltimore, Md., \$11,000. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Owner, Lemuel T. Cooksey, 1500 Bolton street, Baltimore, Md. Brick and reinforced concrete, 3 stories, slag roof, hot water heat, electric lighting, tile, hardwood floors, plumbing, plate glass, painting, glazing, metal ceilings, skylights. Bids due March 8th. The following: A. K. Boteler, 1323 Myrtle avenue; Morrow Bros., Fidelity Building; Price Concrete Construction Co., Maryland Trust Building; Singer-Pentz Co., Equitable Building; B. F. Bennett Building Co., 123 South Howard street; D. M. Andrews Co., Mt. Vernon avenue and 26th street; C. E. Stubbs, Equitable Building; C. W. Littleton & Son, 4313 Liberty Heights avenue; Thomas L. Jones & Sons, 410 West Saratoga street; R. H. Frazier & Son, 224 West Mulberry street; R. B. Mason, 308 West Madison street; Consolidated Eng. Co., Calvert Building, are figuring.

Maryland Contracts Awarded

Apartment House, Fairview avenue and Dennison streets, Baltimore, Md., \$25,000. Architect, private plans. Owners, Ashburton Apartment Co., care builder. Brick, 3 stories, 42x90 feet, slag roof, steam heat. Contract awarded to George R. Morris Title Building, Baltimore, Md.

Dwelling and Garage (add.), 2222 Eutaw Place, Baltimore, Md. Architect, private plans. Owner Dr. G. L. Streeter, Monument and Washington streets, Baltimore, Md. Brick, slag roof, concrete (decorating, heating, wiring reserved by owner). Contract awarded to Walter E. Burnham, Law Building, Baltimore, Md.

Store and Warehouse (add.), 528 North Calvert street, Baltimore, Md. Architect, private plans. Owner, J. F. W. Dorman Co., 526 North Calvert street, Baltimore, Md. Brick, 4 stories, 20x45 feet. Contract awarded to Henry A. Knott, 1540 North Eden street, Baltimore, Md.

Propagating House (alt.), Druid Hill Park, Baltimore, Md. Architect, private plans. Owners, City of Baltimore. Brick, concrete, plastering, painting, glazing, hardware, iron, stone. Contract awarded to Charles Herbold & Sons, 2768 West North avenue, Baltimore, Md.

Buildings, Canton, Baltimore, Md. Architect, Peter S. Gilchrist, Charlotte, N. C. Owners, Baugh Chemical Co., 2401 South Clinton street, Baltimore, Md. Brick, slag roof, reinforced concrete, fire doors, reinforcement. Contract awarded to C. L. Stockhausen Co., Gay and Water streets, Baltimore, Md.

Residence, Reistertown, Owings Mills, Md., \$5000. Architect, Wm. F. Stone, Jr., 218 East Lexington street, Baltimore, Md. Owner, name withheld. Frame, 2½ stories, 23x28 feet, stone foundation, shingle roof, steam heat, electric lighting. Contract awarded to Silvester Marshall, Owings Mills, Md.

Residences (3), Chauncey Place, near Eutaw Place, Baltimore, Md., \$3000. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore, Md. Owner, Bertram Constable, 2917 Guilford avenue, Baltimore, Md.

Brick, 2½ stories, slate roof, steam heat, electric lighting, painting, plumbing, interior tile, hardwood floors. Owner will sublet.

Residences (14), Keyworth avenue near Towanda avenue, Baltimore, \$17,200. Architect, G. Bernard Lohmuller, 1135 North Broadway, Baltimore, Md. Owners, Annex Construction Co., 463-69 Calvert Building, Baltimore, Md. Iron spot brick, marble trim, asphalt roof, hot air heat, gas and electric lighting, ten 14x44 feet, and four 15x44 feet. Owner will sublet.

Residences, Ten Hills, Baltimore, Md. Architect, A. Towne, care Parker, Thomas & Rice, Union Trust Building, Baltimore, Md., \$5000. Owner, John L. Eiser, 2803 Roslyn avenue, Baltimore, Md. Frame, slate roof, stone foundation, steam or hot water heat, electric lighting. Contract awarded to Edw. Thert, 15 East Fayette street, Baltimore, Md., 2½ stories.

Residence, Ardmore Road, Hill Top Park, Baltimore, Md., \$6000. Architect, O. B. Wright, Munsey Building, Baltimore, Md. Owner, W. Addison Baker, 1210 West North avenue, Baltimore, Md. Frame, 2½ stories, slate roof, heating, electric lighting. Contract awarded to Webb & White, Title Building, Baltimore, Md.

Factory, Calverton Road and Lexington street, Baltimore, Md. Architect, James R. Edmunds, Jr., 908 Munsey Building, Baltimore, Md. Owners, International Wood & Paper Co., Calverton Road and Lexington street, Baltimore, Md. Engineer, H. F. Doerman, 1101 American Building, Baltimore, Md. Brick, 3 stories, 40x136x146 feet, slag roof, slow-burning mill construction, reinforced concrete beams on first floor, steam heat, electric lighting, electric elevators, fireproof, door, painting, plumbing, fire escapes, skylights, ventilators. Contract awarded to Gladfelter & Chambers, 36th street and Roland avenue, Baltimore, Md.

Garage, 436-34 North Front street, Baltimore, Md. Architect, C. W. Koch, 347 North Charles street, Baltimore, Md. Owners, P. J. Hentschel Machine Co., 703-5 Hillen street, Baltimore, Md. Brick, 1 and 2 story, 34x100 feet, concrete floor, tin roof (wiring reserved). Contract awarded to Hy. L. Maas, 1119 Ensor street, Baltimore, Md.

Toilet Building, Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Co. Brick, 1 story, 28x60 feet, terra cotta and tile construction, composition and culvanite shingle roof. Contract awarded to Singer-Prentz Co., Equitable Building, Baltimore, Md.

Warehouse and Office, 2022 West Pratt street, Baltimore, Md., \$3000. Architect, Fred. E. Beall, 306 St. Paul street, Baltimore, Md. Owners, Reahl Bros., 2022 Frederick avenue, Baltimore, Md. Brick, 1 story, 30x73 feet, concrete work, metal ceilings and walls, electric lighting. Contract awarded to Fred W. Felte, 319 South Pulaski street, Baltimore, Md.

Miscellaneous Construction News

Residence, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 816 Market street, Wilmington, Del. Owner, George Green, South Rodney street, Wilmington, Del. Brick, 3 stories, 24x45 feet, asbestos and slate roof, hot water heating, electric lighting, hardwood floors. Architect has received bids.

Post Office and Court House, Birmingham,

Ala. Architect, Jas. A. Wetmore, Treasury Dept., Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Marble, brick, stone and hollow tile, 1 and 3 stories, 35x165 feet, composition roof, cement, composition, marble and cork tile floors, metal lath, waterproofing and dampproofing, ventilators, tile and marble work, safety treads, cabinet work, terrazzo work (elevators reserved). Low bidders: Chas. McCaul Co., 1713 Sanson street, Philadelphia, A, \$673,623; B, \$723,620; John H. Parker Co., 3165 Fourth avenue, New York City, A, \$678,973; B, \$725,675.

Post Office, Coshocton, Ohio. Architect, Jas. A. Wetmore, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Stone, brick and concrete, 2 and 1 stories and basement, 106x54 feet, composition roof, maple and cement floors, metal lath, hollow tile, waterproofing, kalamein doors, weatherstrips, ventilators, safety treads, tile and marble work, terrazzo work, rolling steel shutters (plumbing, heating, electric work and ventilating separate bids). Owners taking bids, due March 29th at 3 P. M. Chas. McCaul Co., 1713 Sanson street, Philadelphia, are figuring.

Church, Parish House and Sunday School, Dover, Ohio, \$70,000. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, Grace Evang. Lutheran Church, Dover, Ohio. Brick, 2½ stories and 1 story and basement, slate roof, vapor heat, electric lighting, hardwood and tile floors, waterproofing, tile work. Plans in progress.

Residence (alt. and add.), Guyencourt, Del. Architect, private plans. Owner, Mrs. C. J. Ramsay, care agent. Brick, stone, frame and plaster, 3 stories, addition, 21x52 feet, shingle roof, hot water heating, electric lighting, metal lath, oak and cement floors, cabinet work (finished hardware, electric fixtures and tile work reserved). Agent, Walter Blackson, 845 Du Pont Building, Wilmington, Del., taking bids, due March 10th. E. R. Hall & Bro., 34 South Seventeenth street, Philadelphia, figuring.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Office, Washington, D. C., March 1, 1917.—Sealed proposals will be opened in this office at 3 p. m., April 26, 1917, for the construction of the United States post office at Fremont, Ohio. Drawings and specifications may be obtained from the custodian of the site at Fremont, Ohio, or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after March 15, 1917. Jas. A. Wetmore, Acting Supervising Architect.

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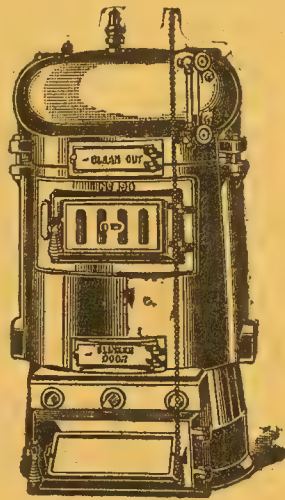
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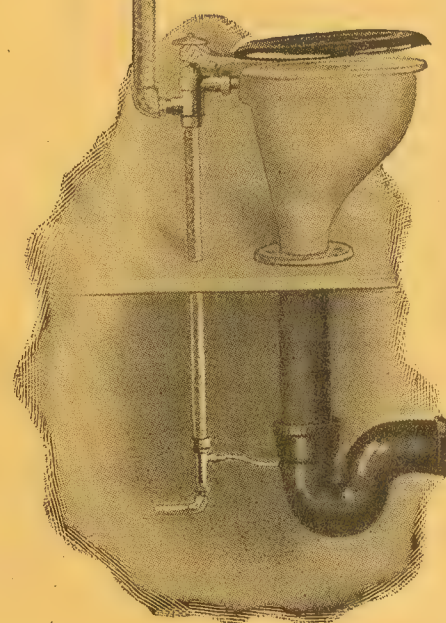
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Vol. XXXII., No. 11
March 14, 1917

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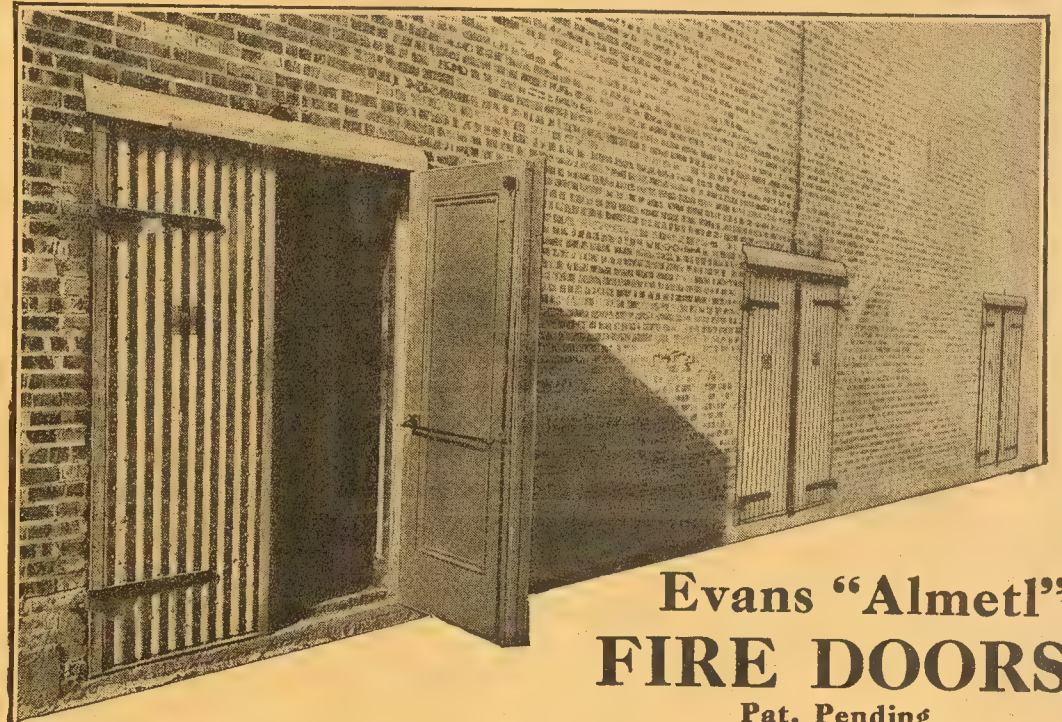
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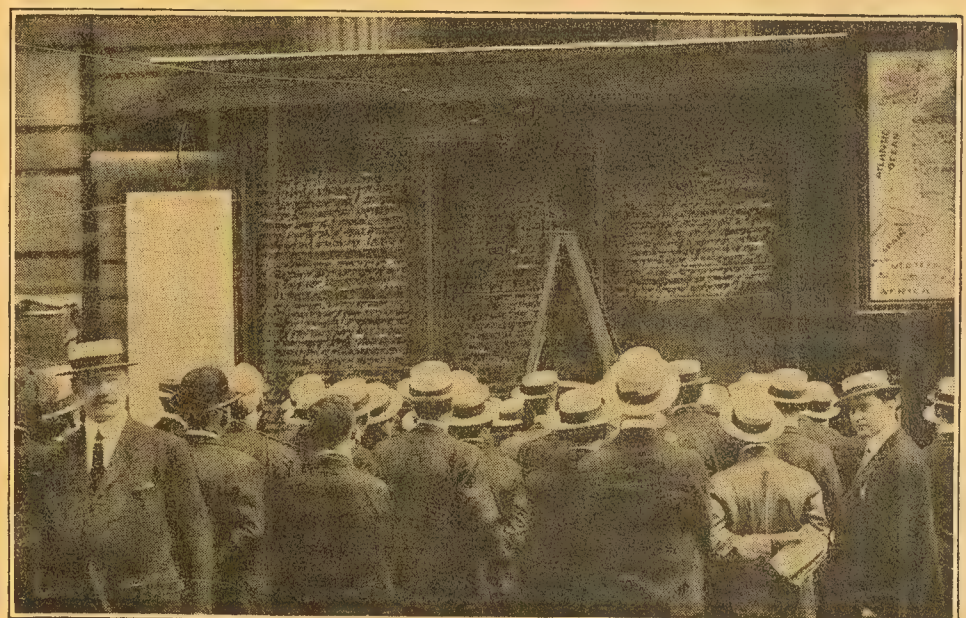
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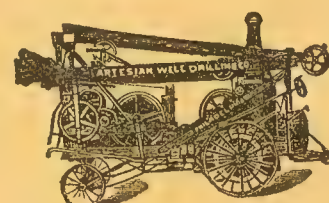
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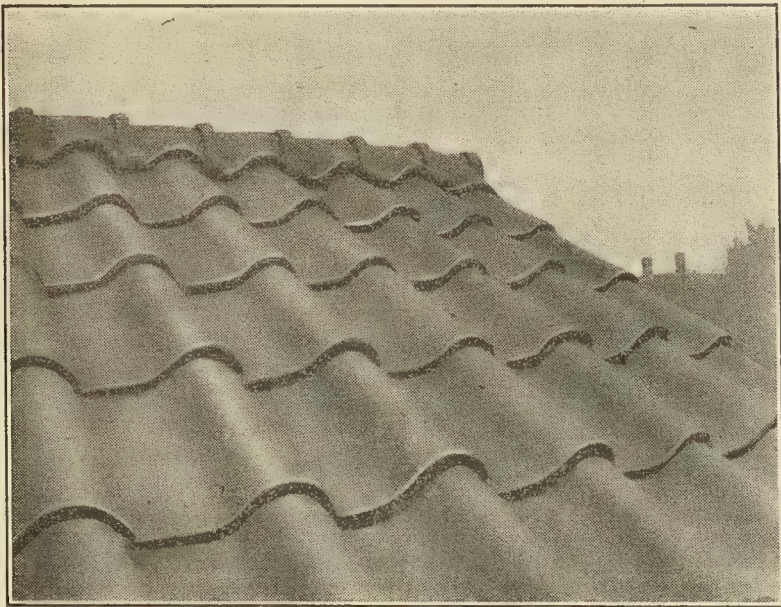


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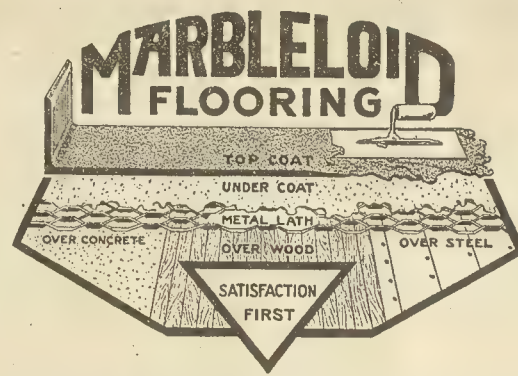


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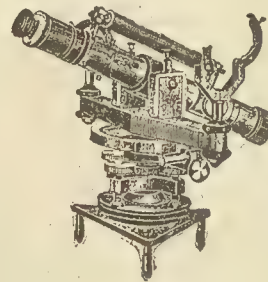
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 11

PHILADELPHIA
March 14, 1917



As The Editor Sees It



THE BUILDERS' GUIDE added 425 new subscribers to its paid circulation in six days recently. It expects to add as many more to its list during the next six days. These new subscribers are the result of a systematic campaign in which THE GUIDE is being represented by a corps of the cleverest subscription specialists in the country.

The new subscribers are from nearly every known branch of the building trades. They include builders, carpenters, sub-contractors, bricklayers, plasterers, plumbers, heater and range men, roofers, cement contractors, waterproofers, contracting painters, electricians and decorators. They cover a range of territory extending from Philadelphia to Harrisburg. THE GUIDE subscription boosters are this week campaigning in South Jersey. When their work is there concluded they will operate from Harrisburg, West, taking in Pittsburgh and Allegheny. It is the intention of the management to press this campaign until the actual paid circulation of THE GUIDE may be said to cover every branch of the building trades from the architect down to the jobbing carpenter.

* * *

JUST at this time when THE GUIDE is expending considerable sums of money on new circulation is a most propitious time to advertise. An advertisement in THE GUIDE's pages is assured not only of reaching every architect and builder of importance in Pennsylvania, Southern New Jersey, Delaware and Maryland, but has the extra assurance of coming to the favorable attention of anywhere from three to five hundred smaller carpenters, jobbers and building workers, weekly, who have not heretofore been among its regular readers.

The signed subscription blanks covering these new enlistments in THE GUIDE's army of readers can be examined at the office by doubting Thomases and folks who profess to be "from Missouri." THE GUIDE has never stooped to cheap or "faking" methods in its zeal for new business. This subscription campaign, like everything else THE GUIDE has undertaken in its thirty years of honorable existence, is a campaign resting strictly on the merits of the proposition.

* * *

THE new readers are being obtained without bait or premiums other than a promise,—which will be redeemed,—that the scope of the policy will be enlarged to include matter of special interest to every branch of the building trades.

* * *

THAT Philadelphia has started a banner year for the building trade needs no better proof than the report of the statistician of the Bureau of Building Inspection. January showed a business of \$2,144,630, which was the largest January with one exception in the last ten years. And now comes February with the total cost of buildings for which permits have been issued amounting to \$4,042,115. This not only exceeds the total of the corresponding month of last year by \$1,604,365, but is the largest February in the last ten years and probably the best in the history of the Bureau of Building Inspection. Remembering that last year was the largest in the total cost of buildings for which permits were issued, it does not require an optimist to be enthusiastic over the start of the present year. The building business in Philadelphia has surely taken a momentum that will be hard to stop.

THE New York Sun has inaugurated the second of its series of competitions for a country house to cost less than \$6,000. Four prizes are offered, a first prize of \$250, a second prize of \$150, a third prize of \$25. The contest is open to students of all architectural schools, and to students of the Society of Beaux Arts Architects. The design must be for a two-story and cellar all-the-year house. No designs will be accepted from practicing architects. Details of the competition may be had by addressing "Architectural Competition *The New York Sun*, Sun Building, New York City." The judges who will pass upon designs submitted are Charles A. Platt, Alexander B. Trowbridge and Richard Harvey Dana, Jr.

* * *

THE Twenty-third Architectural Exhibition of the Philadelphia Chapter of the American Institute of Architects and the T-Square Club is now open to the public in the galleries of the Art Club, Broad and Chancellor streets, and will remain open until March 25th. A review of the exhibition will be the feature of a forthcoming number of THE GUIDE. Tickets for the exhibition may be had at the office of THE GUIDE on request.

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A drop of printer's ink
May make a thousand think.

A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.

It helps your biz',
And therefore is
A goodly thing to try.

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PRINTS**

EDITORIAL NOTES

Speculative and investment building interests seem to be the chief sufferers from the existing high prices of building materials and supplies, remarks *The New York Real Estate Record*. At the present writing there is no prospect of relief in sight; no price recession seems possible, for the tendency now is all toward further advances in substantially all lines of building commodities. Considering the limitations in supply and the heavy demand for practically all materials, present prices will be thought almost nominal when compared with those likely to maintain by the time that the building season becomes really active, provided the present ratio of increase is continued. Speculative and investment builders naturally feel the increased prices more seriously than do the owners who construct buildings to extend their manufacturing or business facilities or the individual who builds for the gratification of his personal desires and tastes. There is a limit at which the former is able to dispose of or rent his improved property, and with the high construction costs his margin of profit is decreased and in numberless instances they have made improvements to property impractical if not absolutely prohibitive.

* * *

A. Pearson Hoover, formerly construction engineer, John W. Ferguson Company, Paterson, N. J., and construction engineer for C. T. Main of Boston, Mass., is now an associate of E. P. Goodrich, consulting engineer, of 35 Nassau street, New York City.

* * *

Among the reasons advanced for the high cost of building materials and supplies in all parts of this country is that ascribed to the options that are being taken on commodities of every description, and in gigantic quantities, by concerns making plans to ship knocked-down buildings by the million dollars' worth into Europe, just as soon as the present war is ended. The reason seems logical, as it is a well-known fact that the requirements of European countries for materials and buildings for the reconstruction will be greatly in excess of the available supply for some years to come.

* * *

John C. Jay, Jr., formerly vice-president of the Pennsylvania Steel Co., and chairman of the Board of the Maxwell Motor Co., has joined the firm of Jamieson, Houston & Graham, consulting en-

gineers, 40 Wall street, New York City. The firm will hereafter be known as Jamieson, Houston, Graham & Jay.

* * *

Although the prices of structural steel shapes have advanced somewhat during the last week, the number of orders booked during the period were smaller and the inquiries less numerous. The recent lull in the building trades is responsible for this condition, as there have been but few structures contracted for requiring steel in sufficient quantity to affect the market. The bulk of recent construction has consisted of small structures, and alterations calling for little if any structural steel. Suburban work has kept the building trade alive during the past few weeks. The outlook is excellent, however, as there are many important projects contemplated in this city and in neighboring towns that will require large amounts of steel shapes, and it is confidently expected that these operations will be placed on the market in the near future. The general condition of affairs has been so unsettled of late that prospective builders have hesitated to commit themselves for fear that further complications will upset their calculations and cause serious losses instead of the profits counted on.

* * *

National Pipe and Supplies Association will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

* * *

The high cost of materials does not seem to deter the construction of buildings. Not only are the architects busy on industrial buildings, but there seems to be an unusual number of larger apartment houses under way and not a few residences being planned for early spring building, with the announcement of an occasional picture theatre. All this goes to show that the variety is large and that prosperity in the building field has reached all trades.

* * *

American Iron, Steel and Heavy Hardware Association will hold its convention at the Hotel Grunewald, New Orleans, La., March 27-29. Arthur H. Chamberlain, Marbridge Building, New York City, is the secretary.

* * *

A \$6,000,000 program of improvements to public thoroughfares, to be completed by the end of this year, is planned by the Bureau of Highways. This includes paving and repaving of streets

with granite block and asphalt and development of the Northeast Boulevard and the Parkway.

The first part of the program, \$1,400,000 worth of work, of which \$490,000 is to be done on the Parkway, will be under way the middle of next month. Bids will be received next week.

* * *

American Hardware Manufacturers' Association and the Southern Hardware Jobbers' Association will hold their convention at the Rice Hotel, Houston, Texas, April 17-20. F. D. Mitchell, 233 Broadway, New York, is secretary-treasurer.

* * *

Associated Manufacturers of Electric Supplies will hold its annual meeting at Delmonicos, New York, on March 15. On March 13, a number of sections of the Association will meet at the Hotel Biltmore.

* * *

National Machine Tool Builders' Association will hold its spring meeting at the Hotel Sinton, Cincinnati, Ohio, May 21-22.

* * *

New Jersey State Association of Master Plumbers will hold its annual convention at Elks Hall, Jersey City, N. J., May 15-17.

* * *

Charles J. O'Neill, a retired builder, died at his home, 1216 South Brood street, Philadelphia, after a short illness from pneumonia. He built many of the city's public schools and firehouses. A widow, four sons and two daughters survive him.

* * *

The architectural firm of Lachman & Murphy, identified with some of the most important of local building projects, has removed its offices from the Witherpoon Building to 356-57-58 Drexel Building.

PAINTING DON'TS.

- Don't paint wet wood.
- Don't second coat until the first has dried hard.
- Don't use thick paint.
- Don't try to do too much at once; finish as you go.
- Don't try to mix paint unless you know how.
- Don't use paint you don't know anything about.
- Don't varnish where the dust is flying.
- Don't use the brush for everything; brushes are cheap.
- Don't forget to clean your brushes and leave them in water over night.
- Don't putty until the surface has been first coated.—"Paint Pointers."

THE METAMORPHOSIS OF THE ATTIC

The attic of delightful childhood memory still may be found in old-fashioned homes where father uses a "moustache cup" and a plush-covered photograph album with a heart-shaped mirror and brassy clasps occupies a prominent place on the "centre" table, says a writer in "The Hoggson Magazine." But, for the most part, the attic, as we recall it, is a thing of the past, a thing of hallowed memory and romance.

Of course, there has been a more or less appreciable movement by certain modern-day pseudo poets to popularize attics by inhabiting them, and calling them Somebody-or-Other's "Garret," but this is purely an effort to create an interest in bad verse. No, attics will never be in again.

But we digress. The old-fashioned attic! Well might it have been called the heaven to which all good and much loved things went when they "died." And this happy hunting ground of the worn-out provided the early idea of Paradise to the children of the house. It was a veritable treasure trove and its wonders were never exhausted. The lost, the strayed, the forgotten, the cast-off, all found their way there. Truly to dust they returned.

Broken dishes piled up on the table that had suffered the loss of a leg and leaned its sagging weight on a box of sea shells and corals, the gift of a seafaring uncle; Jimmy's hobby-horse, which had fallen in the battle of boyhood against babyhood, stood forlorn and alone. Sabres took on a coating of rust, as did the brace of heavy army pistols hanging from rusty nails. Trunks and toys, furniture and old clothes, books and—! But why enumerate? This is not an inventory.

A visit to the attic was an adventure calculated to entrance with delight, and thrill with fear the daring explorer. From the vantage point of the top step the musty smell and the stillness of the atmosphere portended deep and unfathomable mystery—anything seemed possible in such a place.

In the dim light, rows of headless figures hung along the wall; it was Bluebeard's forbidden room. In a dark corner, a wicked animal crouched; two bright spots gleamed out viciously, and when a surprised and frightened mouse scurried across the floor, well, who wouldn't close the door and run?

But there was no resisting the subtle lure of the unknown. Summoning new courage, and a playmate as reinforcements, another attack was made and boldly pushed to a successful completion. But how disappointing for the moment, when more intimate investigation disclosed the headless figures as old military uniforms and army capes! And the eyes of the wild beast proved to be only a glint of sun on the shining knobs of a paid of old brass andirons!

The attic then accommodately became a safe retreat, and afforded its many volumes

of yellow-leaved books the desired thrills for excitement in the stories of others' adventures.

Splendid though were the attic's possibilities as a theatre. Cords stretched from rafter to rafter, a couple of old sheets, and there was a curtain. Now the old hair-covered, nail-studded trunks were truly treasure chests filled with the most gorgeous costumes any cast need wish. The only requirement was that a skirt be long enough to sweep out behind and drag heavily on the floor as the heroine moved. A large feather, drooping sadly from the large hat brim, gave to Hamlet the necessary melancholy air. A train for the heroine and a feather for the hero! It was enough. Of what use is imagination?

And as for playing house!

Shall we shed a tear of regret at the passing of the old-fashioned garret, fragrant with its dried herbs and steeped in an atmosphere of romance? No, for nothing has been lost to the children who have, by prior right, title, inheritance, and custom, the first call and privilege to that portion of the house.

The attic now provides the home with the most delightful of playrooms, that show in every detail a thorough understanding of what a child loves. It is a retreat that is their very own, just as they would have dreamed it. If you told them that the alcoves were formed by chance in the plan of the big house, they would smile incredulously. There is an alcove for each child, where each has her own individual set of furniture, decorated with her own story book pictures. All of them delight in the quaint Kate Greenway figures on the walls and hangings, and the blackboard against the chimney-piece.

Deep shelves furnish cages in which the wild animals sleep at night; and the tired hobby-horse finds a stable and rest. Baby has a playground all her own, out of danger from prancing steed and ranging elephant. There is a quiet corner for nurse, too, fitted out with a low chair and table where she sits with her mending basket. The possibilities of the attic for a real playroom are unlimited and just now coming to be realized. It is a place of enchantment.

What wonderful things are to be seen from the high-up windows where the sunbeams peep in to wake the toys! Perhaps the view may show ships far out on the river or bay, or miles and miles of tree tops tossed in the wind, and soft, white piled-up clouds. When out walking with nurse in the park or grounds, there isn't so much to see; just a little bit close by, and here is a look over the whole, wide world, which is so full of things to make stories about.

Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

PATCHING CEMENT FLOORS.

One of the principal objections often raised against the use of concrete finished floors is the difficulty and cost of successfully repairing places that have become worn or damaged. For best results it is usually considered necessary to cut down the worn places at least one and one-half inches into the unbroken concrete, undercut the edges, clean out the dust and loose particles thoroughly, was with a thin cement grout, fill in with a paste grout and finally float to a level surface a mortar of cement and crushed stone or gravel. The patch must then be kept moist for at least a week or ten days, keeping off all traffic in the meantime.

W. P. Anderson, president of the Ferro Concrete Construction Company, recently stated, through the columns of "Safety Engineering," that his company often makes use of a method of patching concrete floors which is much cheaper and requires far less time than the method commonly used. This method requires the use of a mastic material made from a mixture of asbestos fiber and rubber gum. This mixture is applied with a trowel after thoroughly cleaning the damaged surface. Very little cutting of the old concrete is necessary, other than to break off loose particles. The gum can be worked to a feather edge so that it will readily join with the undamaged concrete surface and eliminate the undercutting required with the old method of patching.

A patch of this sort can be opened to foot traffic within a few hours and to heavy traffic within a day or so. Thus it is possible to repair a much-used portion of a mill or factory floor almost over-night. The cost varies with the size of the patch, but will amount to from 16 to 18 cents a square foot.

BUILDERS' GUIDE

FORMERLY

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BUYING A HOME.

Fear of Going Into Debt Prevents Many From Investing.

"I believe the one reason that, more than any other, keeps the average man from buying a home is the fear of going into debt," says "The Real Estate News."

"Isn't that true in your case To show you how little ground there is for such fears, compare buying with your present situation.

"You are now renting. You already have a debt hanging over you of, let us say, \$25 per month, due every month to your landlord. As long as you rent you will always have this to pay (perhaps more), for you and your family must live somewhere. You couldn't go any more into debt of you bought the house. In fact, much less so.

"Let us see. A house renting for \$25 is likely to sell for around \$3,000. You probably have a few hundred dollars saved, so that you can pay 10 per cent. cash, or \$300. The balance you can pay at the rate of 1 per cent. (in this case \$30) a month; only \$5 a month more than you paid for rent.

"In four years you will have paid 58 per cent. of the total amount. Of this 18 per cent. is interest and 40 per cent. is principal. In other words, you will have paid \$1,740, of which \$1,200 is principal, coming back to you in the value of the house. Your only expense in four years has been \$540 plus the taxes and insurance.

"But," you say, "supposing I get sick, or lose my job; what then?" You must admit that such misfortune is equally possible when you rent. You know that at such time no landlord will wait very long for overdue rent.

"On the other hand, in buying you will find that many of the leading real estate companies have a clause in their contracts providing that, in cases of sickness or other good reason for inability to pay, they will only require payment of the interest.

"But even if there were no such provision, at the end of four years you can go into any bank or loan association and borrow 60 per cent. of the value of the house, in this case \$1,800. The interest on this will be only \$9 per month.

"Where can you find a landlord who will take \$9 a month in time of distress for a \$25 house?

"Best of all, buying a house on these terms you don't go on paying the rest of your life; in seven to ten years you are through—the house is yours.

"It's the man who rents who is always in debt. Own your home and you will soon owe no man."

HOW TO KEEP PUTTY SOFT.

Place in a jar or can and keep covered with water. A thin film of lubricating oil on the surface will prevent water from evaporating.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

"KINKS" FOR CARPENTERS.

In the construction or repairing of buildings, it becomes necessary to form estimate of the expense, and hence all persons should have some knowledge of the rules by which mechanics make their calculations.

Timber Measure.

The unit of measure is a square foot 1 inch thick, in measuring boards, plank and timber.

To Measure Inch Boards.

Multiply the length of the board in feet by its breadth in inches, and divide the product by 12; the quotient will be the number of square feet in the boards.

When the board is wider at one end than the other, take the average width, which is found by adding the width of both ends together and taking half the sum.

Example.—How many square feet in a board 10 feet long and 14 inches wide at one end and 10 inches wide at the other?

14 plus 10 equals 24, divided by 2 equals 12, average width; 12 multiplied by 10 equals 120, divided by 12, equals 10 feet. Ans.

To Find the Number of Feet in Scantling.

Multiply the width in inches by the thickness in inches, and that by the length in feet and divide by 12.

Example.—How many feet of lumber in 15 joist 14 feet long, 8 inches wide and 2 inches thick?

8 multiplied by 2 equals 16, multiplied by 14 feet equals 224, divided by 12 equals 18⅔ feet in one joist; 18⅔ multiplied by 15 equals 280 feet.

After having ascertained the number of feet in a given quantity of lumber, sold by the 1000 feet, multiply the number of feet by the price and point off three figures from the right, the remaining figures will represent the price in dollars.

Example.—What cost 280 feet of lumber, as in the above example, when joists are selling at \$14 per thousand feet?

280 multiplied by 14 equals \$3.920. Ans.

ABOUT BRUSHES.

Flat brushes are good for all kinds of painting and most commonly used.

Round and oval brushes are practical tools for outside use. Many painters prefer them to flats.

Varnish brushes. Flat brushes are the most practical for all kinds of varnish, though for large work ovals can be used to advantage.

Sash brushes are round and oval and mostly used for small surfaces. Fitches in sizes from ¾ to 1½ come in handy.

A good set of brushes for home use for outside painting is:

One 3½-inch flat brush (a 3- or 4-inch may be substituted.)

One No. 8 or No. 10 sash tool.

One 1-inch or 1¼-inch fitch.

With these you can paint most any building and do it right.

You should have a set similar to the above for each worker.—"Paint Pointers."

INTERESTING TEST.

New Type of Floor Construction Designed for Economy.

At a time when the high cost of various materials entering into building construction seems to indicate rather desultory activities in the building field, considerable interest attaches to the introduction of an economic factor in this line. A test of a new type of reinforced concrete floor was recently conducted for the Octagonal Reinforced Floor Company, at the official testing grounds of Columbia University, Monitor street and Norman avenue, Greenpoint, borough of Brooklyn, and tested under the supervision of Professor James S. MacGregor of Columbia University.

The slab tested was a 20' 0" square panel, consisting of 6½" cinder concrete slab, mixed in the proportion of one part Portland Cement (Pennsylvania), two parts clean sand and five parts clean cinders. The design of the slab itself is the result of a careful study made by R. S. Chew, C. E., of California, as to the value of a square or rectangular panel, reinforced in two directions, with a wire mesh fabric, in combination with steel bars placed over the column heads and held in position by means of transverse reinforcing. These bars are what might be called diagonal reinforcing as they are laid in a direction of approximately 45 degrees to the main access of the slab. The wire mesh fabric used was Clinton Welded Fabric, 3x16 inches mesh, ⅜ gauge wires. This was furnished by Albert Oliver & Son, Inc., 101 Park avenue, Manhattan.

The test began with an initial loading of 120 lbs. to the square foot. It took approximately 360 lbs. per square foot of loading before the camber of ⅞-in., which was originally placed in the arch was taken out. From this point on, as each successive 120 lb. reading was taken, the deflection showed approximately 1¼ in. for each 120 lbs. per square foot, while at the final reading, when 960 lbs. per square foot had been placed on the arch, the total deflection taken from a reading at the center of the arch was approximately 11½ inches.

The object of the test, which was successful from every standpoint, was to demonstrate the reason why owners of property should be allowed to construct first-class building, more economically than can be done at present. Compared with other types of floor construction this new system has demonstrated its economy and strength, and should be of particular interest at a time when materials of construction are from 40 to 60 per cent. in excess of normal conditions.

PAINTING OLD FLOORS SOAKED WITH FLOOR OILS.

Make a strong solution of oxalic acid in hot water. Apply hot and use scrubbing brush. Then mop with clean water. This effectively draws out the oil.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church House, Forty-third and Wallace sts., Philadelphia. Architects, Zantzing, Borie & Medary, Otis Building, Philadelphia. Owners, House of St. Michael and All Angels, 209 South Twenty-second street. Stone, brick and hollow tile, 2½ stories, 116x25 feet, 64x24 feet and 107x25 feet, slate roof, cement and linoleum floors, electric lighting, metal lath, dampproofing, fire escape (Kriebel vacuum heating reserved). Architects taking bids, due March 21st. The following are figuring: George A. Fuller & Co., Widener Building; Pringle Borthwick, 8018 Germantown avenue; J. Sims Wilson Co., 1125 Brown street; Graham Campion Co., Otis Building; Metzger & Fisher, Denekla Building; Pomeroy Const. Co., 1609 Ranstead street; H. H. Burrell, 206 South Quince street; Cramp & Co., Denekla Building; Driscoll Co., Stock Exchange Building, Philadelphia.

Police Station and Patrol House, 615 East Girard avenue. Architect, Louis E. Marie, 825 City Hall, Philadelphia. Owners, Bureau of Police, Department of Public Safety, 215 City Hall. Millwork, painting, slate and tin roof, pine floors (plumbing, heating and electric work separate bids). Owners have received bids.

Fire Station (alt.), No. 5, 752 South Sixteenth street, Philadelphia. Architect, Louis E. Marie, 825 City Hall, Philadelphia. Owners, Bureau of Fire, Department of Public Safety, 215 City Hall. Consists of new reinforced concrete floors, plumbing, millwork, electric lighting. Owners have received bids.

Residence, Green and Westview streets, \$9,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Clarence B. Lane, B. S., 6924 MacCallum street. Stone, 3 stories, 28x42 feet, slate roof, hot water heating, electric lighting, hardwood floors, 3 tile bath rooms. Plans in progress. Will take bids in about one week.

Apartment House, Philadelphia, \$100,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner's name withheld. Brick, 4 stories, 24 apartments, slag roof, steam heating, electric lighting, electric elevator, 1 laundry equipment. Plans in progress. Will be ready for bids in about one month.

Paving, various streets, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, Room 232, City Hall, Philadelphia. Consists of asphalt paving, vitrified, granite and wood block paving and curbing. Owners taking bids, due March 16th at noon.

Residences (26), Tenth and Fischer's avenue, Philadelphia. Architect, private plans. Owners, Penn Realty and Const. Co., Ogontz and Cheltenham avenues. Brick, 2 stories, 16x47 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners sub-letting. Will start work in a few days.

Marquise, Thirteenth and Callowhill streets, Philadelphia. Architect, Frank E. Hahn, 1112-14 Chestnut street, Philadelphia. Owners, National Metal Edge Box Co., 1217 Callowhill street. Corrugated iron and glass, 76x120 feet. Architect has received bids.

Central Library, Nineteenth to Twentieth, Vine to Wood streets, \$3,050,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, care of Librarian, John Ashhurst, Thirteenth and Locust streets, Philadelphia. Limestone and granite, 3 stories, 207x328 feet, tile, slag and copper roof, 4 passenger elevators, 6 freight and book elevators, marble, tile and cork floors, safety treads, kalamendi sash, steel doors, ventilators, waterproofing and dampproofing, metal lath (steam heating, electric lighting and plumbing separate bids). Architect taking bids, due March 27th. Cramp & Co., Denekla Building; Thomas Reilly, 1618 Thompson street; George F. Payne & Co., 401 South Juniper street; George A. Fuller & Co., Widener Building; Edw. Atkins, 249 South Twenty-fourth street; Charles McCaul Company, 1713 Sansom street, all of Philadelphia; John Gill & Sons Co., Cincinnati, Ohio; John T. Brady & Co., 103 Park avenue, and Thomson-Starrett Co., 49 Wall street; J. C. Rodgers, 271 West 125th street; T. J. Carmin Cons. Co., 1123 Broadway, New York City, are figuring.

Residence (alt. and add.), Seminole avenue, Chestnut Hill, Pa. Architect, John Graham, Jr., Real Estate Trust Building, Philadelphia. Owner, J. Leeds Barrell, 7207 Charlton avenue, Chestnut Hill. Stone, 3 stories add., 40x20 feet, shingle roof, hot air heating, electric lighting, hardwood floors, tile work. Plans in progress. Architect will take bids about April 1st.

Garage, northwest corner of Seventh and Spring Garden streets. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Very Best Garage Co., care of M. Berger & Co., northeast corner Seventh and Green streets, Philadelphia. Brick and concrete, 2 stories, 87x115 feet, slag roof, steam heat, electric lighting, cement and plank floors, gasoline storage. Plans in progress. Architect and owners will take bids in two weeks.

Factory (add.), Twenty-fifth and Hunting Park avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Edw. G. Budd Mfg. Co., Twenty-fifth and Hunting Park avenue. Brick, steel and reinforced concrete, 3 stories, concrete and slag roof, steam heating, electric lighting, fire doors, metal lath, waterproofing. Architects taking bids, due March 19th. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denekla Building; Barclay White & Co., 1713 Sansom street; Turner Concrete Steel Co., 1713 Sansom street; Warren-Moore Co., Commercial Trust Building, and F. W. Mark Const. Co., Finance Building, Philadelphia.

Sunday School, Fifty-eighth and Springfield avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Springfield M. E. Church, George P. Beck, pastor, 5852 Warrington avenue, Philadelphia. Stone, 2 stories and basement, 70x70 feet, slate roof, pine floors, electric lighting. Architects taking bids, due March 19th. H. E. Baton, Twelfth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street; A. R. Raff Const. Co., 1635 Thompson street; F. E. Wallace, 1220 Cancellor street; H. C. Rea Co., 1027 Wood street; F. B. Davis, 240 North Sixteenth street; H. H. Burrell, 206 South Quince street; R. C. Ballinger & Co., 218 North Thirteenth street; Thomas C. Trafford, 1613 Sansom street, and Wm. J. Gruhler & Co., 219 East High street, are figuring.

Garage, southeast corner of Fifty-sixth and Baltimore avenue, Philadelphia. Architect, private plans. Owner, I. S. Stein, care of builder. Brick, 1 story, 80x100 feet, slag roof, cement floors. Conneen Const. Co., 1737 Filbert street, taking sub-bids, due as soon as possible.

Residences and Garages in basements (8), Fifty-eighth and Walnut streets. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Barnet Saidel, Eleventh and Wyoming avenue, Philadelphia. Brick, (1) 2 stories, 36x32 feet, (6) 2 stories, 16x52 feet, and (1) 2 stories, 16x32 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work, cement floors. Plans in progress. Owner will take sub-bids in two weeks.

Garage, southwest corner of Twenty-second and Race streets, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, H. Fryman, 168 North Twenty-second street, Philadelphia. Brick, steel and concrete, 2 stories, 55x90 feet, slag roof, steam heating, electric lighting, metal sash, electric elevator, rolling steel doors, cement floors, gasoline storage system. Plans in progress. Will be ready for bids in one week.

Store and Residences (remodeling), 244 N. Twenty-second street. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, H. Fryman, 168 North Twenty-second street, Philadelphia. Brick, 3 stories, 16x66 feet, general exterior and interior remodeling, slag roof, hot water heating, modern plumbing, tile work, metal bulks, plate glass, steel work. Plans in progress.

Store and Apartments, Eighty-fourth and Eastwick avenue, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Samuel Shain, on premises. Brick, 2 stories, 32x60 feet, slag roof, hot water heating, electric light, metal ceiling, yellow pine floors, tile work, metal bulk. Plans completed. Architect ready for bids.

Residence and Garage, Queen Lane Manor, Philadelphia. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Philadelphia. Own-

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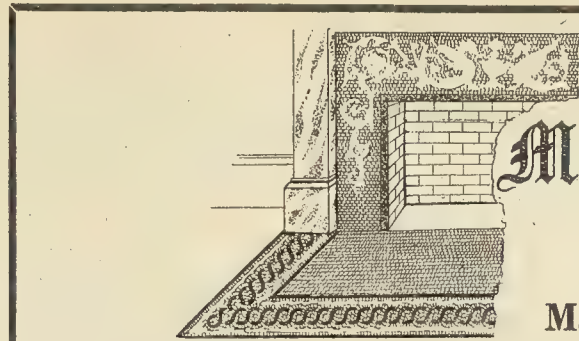
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AWARDING A CONTRACT

er, L. Harry Richards, Jr., Real Estate Trust Building. Brick and plaster, 2½ stories, 27x47 feet; garage, 1 story, 10x14 feet, slate roof, hot water heating, electric lighting, hardwood floors, cement work. Architect has received bids.

Office Building (alt.), 247-49 North Twelfth street, Philadelphia. Architect, private plans. Owners, Mutual Film Corp., 257 North Twelfth street, Philadelphia. Brick, 2 stories, cement floors, hollow tile, elevators, rolled steel sash, fire doors, tile work. Owners taking bids, due as soon as possible. Lam Building Co., 1001 Wood street, are figuring.

Sewers, various streets, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, City Hall, Philadelphia. Stone, brick, reinforced concrete, cast iron pipe. Owners taking bids, due March 22nd at noon.

Stores and Dwellings (alt.), 1611-15 West Susquehanna avenue. Architect, William H. Wooters, 816 Allegheny avenue. Owner, C. A.



Both Phones

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Rowell, on premises. Brick, 3 stories, 40x45 feet, electric light, metal lath, hardwood floors, pine floors, new bulks, tile and marble work (heat and plumbing reserved). North Philadelphia Trust Co., Germantown and Erie avenues, has received bids.

Bridges (4), Philadelphia. Engineer, Jonathan Jones, Room 532 City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, George E. Datesman, Director, City Hall, Philadelphia. Steel, reinforced concrete, timber asphalt paving. Fifth street, over Richmond Branch of P. & R.; Ashburner street, over Philadelphia and Trenton R. R.; Linden avenue, over Philadelphia and Trenton R. R.; Harvey street, under P. G. & N. Branch of P. & R. Owners ready for bids, due March 22nd at noon.

Apartment House (alt.), 1429 Poplar street, Philadelphia, \$3,000. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Julius C. Martin, care of architect. Brick, 3 stories, plumbing, electric lighting, hardwood floors, skylight, tile and marble work. Architect has received bids.

Workmen's Cottages and Stable, Chestnut Hill, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, Land Title Building, Philadelphia. Brick, hollow tile and plaster, 1½ stories, 107x30x20 feet. Stable, 2 stories, 26x23 feet, 2 wings 62x14 feet each, tin and shingle roof, hot water heating, cement and pine floors, metal lath, dampproofing, tile work (lighting fixtures, weather strips and lighting reserved). Architect has received revised bids.

Factory (alt.), 307-9 Florist street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Jos. Kopperman & Son, on premises. Brick and steel, 3 stories, front, 24x32 feet, composition roof, plank floors, hollow metal skylights, ventilators (heating and light reserved), rolling steel doors. Architect has received bids.

Combination Building, along P. S. & W. R. R., Delaware. Architect, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Frame and stucco, 1 story, 13x22 feet, Rex-tile roof, cement and pine floors, electric lighting, 1 ventilator, safety treads. Plans completed. Owners, care of C. Latrobe, Wilmington Division, will take bids.

Garage (alt.), Thompson street, below Thirty-second street, Philadelphia. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owners, Penn Grain Feed Co., on premises. Brick, 2 stories, 20x52 feet, electric lighting, ventilators, slag roof, cement floors. Architects have received bids.

Garage, Eighteenth and Ridge avenue, Philadelphia. Architect, George S. Idell, 34 S. Sixteenth street, Philadelphia. Owners, Ridge Avenue Farmers' Market, on premises. Brick and steel, 2 stories, 60x170 feet, slag roof, steam heating, cement and pine floors (gasoline storage system reserved). Architect has received bids.

Studio (alt.), 3252 Chestnut street, Philadelphia. Architect not selected. Owner, Nicola D'Ascenzo, 1608 Ludlow street, Philadelphia. Stone and brick, 4 stories, consists of changing present residence into a studio. Work to go ahead this spring.

Residences (93) and Stores (6), Shunk street from Front to Second streets. Architect, private plans. Owner, Abram Berman, 2502 South Third street, Philadelphia. Brick, 2 stories, 14 and 15 feetx48 to 55 feet, slag roof, pine floors, hot air heating, combination lighting. Owner ready for sub-bids in a week.

Store and Apartments, northeast corner of Sixteenth and Columbia avenue. Architect, F. E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Max Roetenberg, 1419 Ridge avenue, Philadelphia. Brick, 3 and 2 stories (add.), 17x27 feet, slate, tin and tile roof, oak and pine floors (heating, electric work and decorating reserved). Architect has received bids.

Foundry Building, Tulip and Venango sts., Philadelphia. Architect not selected. Owners, Reid Metal Refining Co., Tioga and Tulip streets, Philadelphia. Brick, 1 story, 45x100 feet. Work contemplated.

Motion Picture Theatre (alt.), Seventh and Snyder avenue, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Grand Theatre Amusement Co., on premises. Brick, steel and terra cotta, 1 story, 75x135 feet, slag roof, cement floors, electric lighting, metal lath, tile and marble work, terrazzo work (lighting fixtures, pipe organ and interior decorating reserved). Architect taking bids, due March 22nd. Freund Const. Co., Bulletin Building; Smith-Hardican Co., 1606 Cherry street; E. J. Kreitzburg, 1345 Arch street; Lam Building Co., 1001 Wood street, and Harry Gill, Jr., 2515 Germantown avenue, are figuring.

Motion Picture Theatre, southwest corner of Nineteenth and Market streets, Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Stanley Theatre Co., Juniper and Market streets, Philadelphia. Brick, stone, steel and terra cotta, 1 story and balcony, 142x170 feet, slag roof, electric lighting, metal lath, fire doors, tile and marble work, cement floors. Plans about completed. Architects will take bids in a few days.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Sunday School, Pulaski and Winona avenue, Germantown, \$46,000. Architect, private plans. Owners, Westide Presbyterian Church, Rev. Wm. P. Lee, 5516 Morris street, Woodruff Jones, chairman Building Committee, Lafayette Building. Stone, 1 story and gallery, 80x100 feet, slate roof, steam heating, electric lighting, pine floors. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

Store and Dwelling (alt. and add.), 2032 N. Broad street, \$6,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Mone R. Isaacs, Hotel Loraine, Philadelphia. Brick, 3 stories, 18x72 feet, tin roof, metal lath, metal bulks, composition and pine floors, metal ceilings, tile work, hot water heating, electric lighting (store fixtures, lighting fixtures and decorating reserved). Contract awarded to Samuel J. Rea & Son, 1608 Fairmount avenue.

Garage, 1417-25 Melon street, Philadelphia, \$8,000. Architect, private plans. Owner, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 1 story, 80x69 feet, slag roof, steam heating, electric lighting, cement floors, gasoline storage system. Contract awarded to Herman Voigt, 1251 North Twenty-eighth street, Philadelphia.

Garage, 1223-27 Hamilton street, Philadelphia, \$7,000. Architect, private plans. Owner, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 1 story, 32x55 feet, slag roof, steam heating, electric lighting, cement floors, gasoline storage system. Contract awarded to Herman Voigt, 1251 N. Twenty-eighth street, Philadelphia.

Office Building, southeast corner of Fifty-seventh and Chestnut streets, \$175,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Commonwealth Building, Philadelphia. Brick and stone, concrete and steel, 4 stories, 170x61 feet, slag roof, hot water heating, electric lighting, metal lath and sash, waterproofing, fire doors, sprinklers, tile and marble work, tile floors, hollow tile, elevators, terrazzo work, fixtures. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Factory (add.), Beck and Swanson streets, \$3,000. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, Hagy Waste Works, 8836 Swanson street. Brick, 1 story additional, slag roof, cement and plank floors. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Manufacturing Building (add.), Front and Erie avenue, \$60,000. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Hess-Bright Mfg. Co., on premises. Brick, steel, reinforced concrete and terra cotta, 1 and 2 stories, 98x218 feet, slag roof, pine, marbleoid, cement and maple floors, metal lath, rolled steel sash, metal lockers (steam heating, sprinklers, electric work reserved). Contract awarded to Harrison C. Rea Co., 1027 Wood street, Philadelphia.

Residences (6), Rising Sun Lane and Godfrey street, Philadelphia, \$40,000. Architects, Lachman & Murphy, Witherspoon Building, Philadelphia. Owner, George T. Sale, Bailey Building, Philadelphia. Brick, stucco and frame, 2½ stories, 23x30 feet, slate and shingle roofs, electric lighting, hot air heating, tile work. Contract awarded to Harry A. L. Smink, Akron and Wakeling streets, Philadelphia.

Garage (add.), 3924 Walnut street, Philadelphia, \$450. Architect, Theo. F. Dillon, 130 South Fifteenth street, Philadelphia. Owner, George Miller, on premises. Brick, consists of new porch, 14x24 feet, slag roof, pine floors. Contract awarded to Eugene Tourison, 1001 Chestnut street, Philadelphia.

Machine Shop (alt. and add.), 1120 Vine street, Philadelphia. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Philadelphia Gear Works, on premises. Brick, slow burning and oist construction, 1 story and mezzanine, add., 18x100 feet, slag roof, plumbing, electric lighting, metal lath, waterproofing, ventilators, pine floors. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Residence and Garage, Lincoln Drive, between Carpenter and Sedgwick streets. Architect, D. K. Boyd, Otis Building, Philadelphia. Owner, G. H. Steinmetts, 42 Carpenter street, Germantown. Stone, 2 ½ stories, 35x40 feet, tile roof, electric lighting, hardwood floors, tile work (heating, plumbing reserved). Contract awarded to Wm. S. Kohl, 101 East Washington lane.

Artillery Case Shop and Instrument Department Building (add.), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, Col. George Montgomery, Frankford Arsenal. Brick, concrete, steel, stone trim, 1 and 2 stories, 199x49 feet, and 4 stories, 63x29 feet, maple floors, hollow tile, 1 elevator, rolled steel sash, waterproofing, safety treads, metal window guards (heating and lighting reserved). Lowest bidders on lowest alternate: Ketcham & McQuade, 1029

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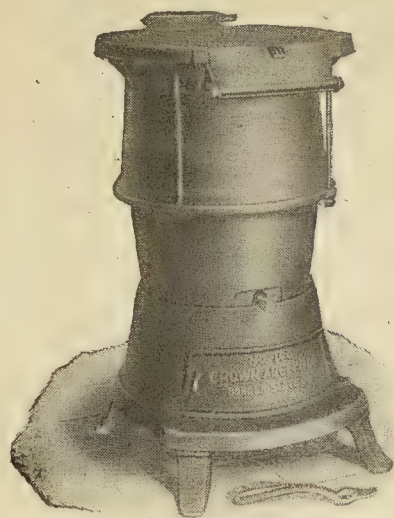
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Brown street, bid No. 1, \$42,000; No. 2, \$22,920; W. W. Anstine & Co., 1218 Filbert street, bid No. 1, \$42,000; No. 2, \$29,000.

Knitting Mill, Dye House and Power House, Hunting Park avenue and Stockley street, Philadelphia. Engineers, Howard J. Webster and W. Herbert Gibson, Harrison Building, Philadelphia. Owner, Charles Christos, 2821

Helen street, Philadelphia. Brick and concrete, 2 stories, 75x192 feet; 1 story, 70x160 feet; 1 story, 40x70 feet, asbestos or slag roof, maple and mastic floors, rolled steel sash, fire doors, cement paving, metal skylights, rolling steel doors (plumbing, electric work and sprinklers and elevator reserved). Contract awarded to Monaghan & Lesse, Inc., 3016 Chestnut street, Philadelphia.

PENNSYLVANIA Construction News

Residences (4), East Lansdowne, Pa. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, J. Charles Yundt, 301 West Tabor road, Philadelphia. Hollow tile and stucco, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, parquet floors. Plans in progress.

Apartment House, Sedgwick, Pa., \$25,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 3 stories, 6 apartments, 33x93 feet, terra cotta trim, slag roof, steam heating, electric lighting, hardwood floors, tile work. Plans in progress. Owner will take sub-bids.

School and Auditorium Building, Fort Washington, Pa. (alt. and add.). Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of Upper Dublin Township, Montgomery County, Pa., Wm. E. Aichele, chairman of Building Committee. Stone and brick, 2 and 1 stories add., 88x55 feet, slag and slate roof, maple, cement and pine floors, metal lath, ventilators, metal ceilings, metal weatherstrips (heating, ventilating, plumbing and electric work reserved). Lowest bidders, Henry P. Schneider, \$26,797; Specht & Sperry, \$26,975.

School, Biddle and Church streets, West Chester, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Board of Education, W. H. Lewis, secretary, West Chester. Brick, stone, concrete and terra cotta, 3 stories, 147x66 feet and 70x41

feet, asbestos and asphalt roof, cement and pine floors, metal lath, waterproofing, fire doors (ventilators, steam heating, electric work, plumbing separate bids), hollow tile, tile work. Low bidders, Metzger & Fisher, Denekla Building, \$90,717.

Elks Home, Lehigh, Pa., \$40,000. Architect, John J. Hawley, Traders' Bank Building, Scranton, Pa. Owners, B. P. O. E., Lehigh, Pa. Brick, stone trim, 3 stories and roof garden, 45x100 feet, slate roof, steam heating, electric lighting, metal lath, waterproofing, hardwood floors, dumbwaiters, tile and marble work. Plans in progress.

Residence (alt. and add.), 934 Clay avenue, Scranton, Pa. Architect, John B. Thompson, Connell Building, Scranton, Pa. Owner, T. J. Yates, on premises. Frame, 3 stories, 28x60 feet, tin and shingle roof, yellow pine floors, steam heating, electric lighting. Architect ready for bids.

Bakery Shop, South Washington avenue, Scranton, Pa. Architect, L. Reisman, Dime Bank Building, Scranton, Pa. Owner, Bernard Weinstein, on premises. Brick, 2 stories, 24x50 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, cement floors. Architect ready for bids.

Apartment House (alt.), 726 Adams avenue, Scranton, Pa. Architect, L. Reisman, Dime Bank Building, Scranton, Pa. Owner, Ignatz Imiedoff, on premises. Interior alterations, 3 stories, 36x60 feet, steam heating, electric

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lighting, yellow pine floors, tile work. Architect ready for bids.

Fire Houses (2), Olyphant, Pa., \$20,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Borough of Olyphant, Pa. Brick, 2 stories, 30x66 feet, slate roof, steam heating, electric lighting, cement floors. Plans in progress.

High School, Throop, Pa., \$100,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board, Throop, Pa. Brick, 2 stories and basement, 80x200 feet, slag roof, steam heat, electric lighting, metal lath and sash, waterproofing and damp-proofing, fire doors, ventilators, hollow tile, metal lockers, weather strips, cabinet work, composition floors. Architect ready for bids.

Office Building and Flat, Olyphant, Pa. Architect, R. W. Snyder, Title Guarantee Building, Scranton, Pa. Owners, Olyphant Gas and Water Co., Olyphant, Pa. Fireproof construction, 2 stories, 25x60 feet, slag roof, gas lighting, steam heating, concrete floors. Architect has received bids.

Hotel, Adams avenue, Scranton, Pa. Architect, R. W. Snyder, Title Guarantee Building, Scranton, Pa. Owner, Luther Kellor, on premises. Brick, 1 story, 20x30 feet, electric lighting, maple floors. Architect taking bids, due March 15th. Stender Bros., Howard & Stender, Peter Stipp, E. S. Williams and S. Sykes & Sons, all of Scranton, Pa., are figuring.

Garage, Peckville, Pa. Architect, Benj. Crowther, 424 Miller Building, Scranton, Pa. Owner's name withheld. Brick and steel, 2 stories, 40x60 feet, slag roof, steam heating, electric lighting, steel sash, cement floors, elevators. Plans in progress.

Sunday School, Moosic, Pa. Architects, Davey & Crowther, Coal Exchange Building, Scranton, Pa. Owner, Rev. M. Lawson, Moosic, Pa. Frame, 2 stories, 40x48 feet, slate or shingle roof, steam heating, electric lighting, yellow pine floors. Owner and architects are ready for bids.

Office Building, Wilkes-Barre, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner's name withheld. Brick, 2 stories, 42x86 feet, slag roof,

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vapor heating, electric lighting, metal lath, waterproofing, tile and marble work, composition floors. Plans in progress.

Administration and Ward Buildings, Wilkes-Barre, Pa. Architect, Thos. Podmore, Bennett Building, Wilkes-Barre, Pa. Owners, City of Wilkes-Barre, contagious hospital. Brick, 2 stories, 21x31 feet, and 1 story, 81x31 feet, slate roof, steam heating, electric lighting, metal lath and sash, cement floors, metal doors, dumbwaiters, tile and marble work. Plans in progress.

Fire House, Nanticoke, Pa. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Borough of Nanticoke, Pa. Brick, 2 stories, 30x62 feet, slag roof, steam heating, concrete floors, electric lighting, metal ceiling, fire doors. Plans in progress.

Family Residences (4), Dorranceton, Pa. Architect, Frank Sahm, 2nd, National Bank Building, Wilkes-Barre. Owner's name withheld. Stone and stucco, 2 stories, 40x76 feet, tile or slate roof, steam heating, electric and gas lighting, hardwood floors. Plans in progress.

Public Garage, Wilkes-Barre, Pa. Architect, Frank Sahm, Wilkes-Barre. Owner's name withheld. Brick, 1 story, 52x132 feet, slag roof, steam heating, electric lighting, metal lath, waterproofing, cement floors. Plans in progress.

Store Front, Wilkes-Barre, Pa. Architect, Frank Sahm, Second National Bank Building, Wilkes-Barre. Owner's name withheld. Tile floors, tile work. Architect taking bids in one week.

Laundry Building, Retreat, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre. Owner's name withheld. Brick, 3 stories, 50x100 feet, slag roof, steam heat, electric light, metal lath, waterproofing, reinforced concrete floors. Plans completed.

School (8 rooms), Newport Township, Alden, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre. Owners, School Board

of Newport Township. Brick, fireproof construction. Sketches completed.

Residence, Drexel Hill, Pa. Architect, Milton S. Grawl, 601 Harrison Building, Philadelphia. Owner, H. W. Rickabaugh, 5513 Girard avenue, Philadelphia. Stone, frame and stucco, 2½ stories, 26x38 feet, shingle roof, hot water heating, electric lighting, metal lath, tile work. Plans completed. Architect taking sub-bids.

Residence, Rutter avenue, Darnston, Pa., \$7,000. Architect, Frank Sahm, Second National Bank Building, Wilkes-Barre, Pa. Owner, J. L. Sterns, South River street, Wilkes-Barre. Stucco, 2½ stories, 28x40 feet, slate, shingle or tile roof, steam heating, electric lighting, metal lath, hardwood floors. Architect has received bids.

Church, Duryea, Pa. Architect, B. A. Crowther, 424 Miller Building, Scranton, Pa. Owners, St. Peter's Greek Catholic Church, Duryea, Pa. Frame, 1 story, 30x60 feet, metal shingle roof, steam heating, electric lighting, yellow pine floors, metal ceiling. Plans in progress.

Residence, Pennsylvania and Sunset avenues, Scranton, Pa., \$15,000. Architect, Frank Miller, People's Bank Building, Scranton, Pa. Owner, G. A. Bender, Scranton, Pa. Frame and stucco, 2½ stories, 43x39 feet, asbestos shingle roof, vapor or hot water heating, combination lighting, hardwood floors. Architect ready for bids.

Bungalow, Lansdale, Pa. Architect, S. S. Conner, Lansdale, Pa. Owner, Eli Cook, Lansdale, Pa. Brick and stucco, 1½ stories, 45x34 feet, slate roof, hot water heating, electric lighting, oak floors. Plans completed.

Factory (add.), Lansdale, Pa. Architect, S. S. Conner, Lansdale, Pa. Owner, A. J. Brumbach, Lansdale, Pa. Brick, 2 stories and basement, 30x60 feet, asbestos shingle roof, steam heat, electric light, metal lath, fire doors, maple floors. Plans in progress. Architect ready for bids in two weeks.

Bungalow, Lansdale, Pa. Architect, S. S.

Conner, Lansdale, Pa. Owner, Eli Cook, Lansdale, Pa. Brick and stucco, ½ stories, 28x32 feet, slate roof, hot water heating, electric lighting, oak floors. Plans completed.

Garage, Lansdale, Pa. Architect, S. S. Conner, Lansdale, Pa. Owner, H. L. Freed, Lansdale, Pa. Frame and stucco, 1½ stories, 24x20 feet, slate roof, cement floors. Plans completed.

Twin Houses, Lansdale, Pa. Architect, S. S. Conner, Lansdale, Pa. Owner's name withheld. Brick, 2½ stories, 42x36 feet, slate roof, hot water heating, yellow pine floors. Sketches completed.

Bungalow, Upper Black Eddy, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Arthur C. Shaw, Upper Black Eddy, Pa. Frame, 1½ stories, 36x30 feet, shingle roof, yellow pine floors. Plans in progress.

Residence and Garage, Hatboro, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Walter Reading, 1625 Dyer street, Frankford, Pa. Hollow tile, 2½ stories, 35x26 feet, green slate roof, electric lighting, hot water heating, hardwood floors, hollow tile. Architect taking revised bids, due as soon as possible. John Ramsey, Ivyland, Pa., and Samuel Krusen, Hatboro, Pa., are figuring.

Residence, Bellevue Park, Pa. Architects, Fahnestock & Raidalaph, Patriot Building, Harrisburg, Pa. Owner, R. Brinser, care of architects. Stone and stucco, 2½ stories, 50x30 feet, slate roof, hot water heating, electric lighting, metal lath, hardwood floors, hollow tile, tile and marble work, weather strips. Plans in progress.

Store Building, Doylestown, Pa., \$5,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Doylestown Drug Co., Doylestown, Pa. Consists of interior alterations, store fixtures and front. Plans in progress. Ready for bids.

School, Fallsington, Bucks County, Pa., \$25,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, School Board of Fallsington, Fallsington, Pa. Brick and hollow tile, fireproof construction, 1 story, 89x90 feet, slate roof, steam heat, electric lighting. Owners have received bids.

Garage, Merion Pa. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, Mrs. Edith C. B. Stuart, Merion, Pa. Stone and frame, 1½ stories, 29x23 feet, shingle roof, electric lighting, hot water heating, cement and pine floors. Architects have received bids.

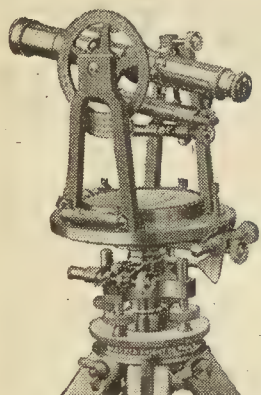
Residence, Bryn Mawr, Pa. Architects, Peabody & Sterns, Boston, Mass. Owner, Livingston L. Biddle, Bryn Mawr avenue, Bryn Mawr, Pa. Stone, 3 stories, 106x28 feet, wing 40x38 feet, slate roof, pine floors, metal lath, tile and marble work (heating and electric lighting reserved). Architects have received bids.

School and Auditorium, Sharon Hill, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Holy Spirit Parochial School, care of Rev. Joseph P. Monville, on premises. Brick, steel and concrete, stone trim, 2 stories and basement, 125x38 feet and 45x17 feet, slag roof, cement, maple and pine floors, metal lath, waterproofing and damp-proofing (heating and electric work reserved). Architect has received bids.

Parish House (add.), Gulph Mills, Pa. Architects, George Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Episcopal Church of Gulph Mills, Gulph Mills, Pa. Stone, 1 story additional, 28x13 feet, 34x26 feet and 41x13 feet, slate roof, pine floors (plumbing, heating and electric work reserved). Architects have received bids.

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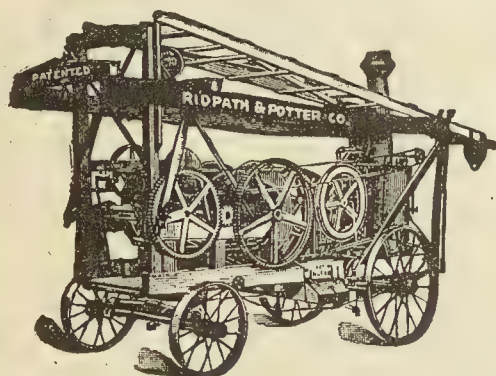
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587 Bourse Building

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tect, private plans. Owners, Sun Ship Building Co., Finance Building, Philadelphia. Brick and concrete, 1 story, 65x35 feet, slag roof, concrete floors, metal lath, fire doors. Owners taking revised bids, due as soon as possible. The following are figuring: Wm. Provost, Jr., Chester, Pa.; John N. Gill & Co., Otis Building; H. E. Baton, Twelfth and Sansom streets; W. W. Lindsay & Co., Harrison Building, and Barclay White & Co., 1713 Sansom street, Philadelphia.

Mare Brood Stable, Godfre road, Radnor, Pa. Architects, Adams & Manning, 1700 Walnut street, Philadelphia. Owner, Robert L. Montgomery, 131 South Fourth street, Philadelphia. Stone and plaster, 1 story, 200x50 feet, shingle roof. Architects have received bids.

Utility Building (alt.), Hazleton, Pa., \$12,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owners, Hazleton Cemetery Association, Hazleton, Pa. Brick, marble trim, 1 story, 30x30 feet, Spanish tile roof, steam heating, electric lighting, tile and hardwood floors, tile and marble work. Architect taking bids, due March 20th.

Residence and Garage, Hazleton, Pa., \$15,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owner's name withheld. Brick and stucco, hollow tile, 2½ stories, 40x48 feet, tile roof, vapor heating, electric lighting, hardwood floors, hollow tile, tile work. Architect taking bids, due April 5th. H. L. Campbell, Charles Itter, John Eroh and George Woodrunk, all of Hazleton, Pa., are figuring.

Residence, Riverside and Sheldon street, Wilkes-Barre, \$7,000. Architect, Fred Sahn, Second National Bank Building, Wilkes-Barre, Pa. Owner, Joe Cohen, South Main street, Wilkes-Barre, Pa. Stucco, 2½ stories, 28x40 feet, slate and shingle roof, steam heating, electric lighting, metal lath, hardwood floors, tile and marble work. Architect taking bids, due March 16th. Luther Roth, W. J. Kear, A. M. Hilderbrand and Levy Berg, all of Wilkes-Barre, Pa., are figuring.

Residence, near Overbrook, Pa. Architect, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, Le Roy P. Leas, care of Leas & McVitty, 305 Vine street, Philadelphia. Stone,

2½ stories, 33x110 feet, shingle roof (vapor heating, electric lighting, plumbing and tile work reserved), hardwood floors. Plans about completed. Architect ready for bids in a few days.

Residence (add.), Meadowbrook, Pa. Architects, Chas. W. Bolton & Sons, Witherspoon Building, Philadelphia. Owner, Mrs. Catherine Kulling, Meadowbrook, Pa. Stone, hollow tile and plaster, 1 story addition, 14x17 feet, tin roof (plumbing, heating, electric work, oak floors reserved). James B. Flounders, 1329 Arch street, is figuring, in addition to those previously reported.

Residence, Farmstead, Valley road, Devon, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, C. W. Thomson, Narberth, Pa. Frame, 1½ stories, 25x55 feet, shingle roof (plumbing and heating reserved). Plans in progress.

Factory (add.), Darby, Pa. Engineers, Willard Case Co., 17 Battery Place, New York City. Owners, Griswold Worsted Co., Darby, Pa. Steel and brick, 1 story, 48x84 feet, Barrett roof, maple floors, metal skylight (plumbing, heating and lighting reserved). Architect taking bids, due March 16th. Hogg Const. Co., 1634 Sansom street; George & Borst, 277 South Eleventh street, and Monaghan & Losse, Inc., 3016 Chestnut street, are figuring.

Residences (85), State road and West Chester pike, Upper Darby, Pa. Architect, private plans. Owner, George F. Gibson, Jr., Crozer Building, Philadelphia. Brick, stone, frame and plaster, 2 stories, 18x46 feet, 18x36 feet and 26x36 feet, shingle and slag roof, hardwood floors, steam heating, electric lighting, tile work. Owner taking sub-bids, due March 20th.

School (add.) and Gymnasium, Oakmont, Delaware County, Pa. School (interior finish to second story), Brookline, Delaware County, Pa. Architect, D. Knickerbacker Boyd, Otis Building, Philadelphia. Owners, School District of Haverford, Joseph W. Huff, secretary School Board, Oakmont, Pa. School, 2 stories and basement, brick and stone, 68x96 feet and 24x32 feet; gymnasium, 1 story and basement. Brick, stone and plaster, 50x90 feet, slate roof, pine and cement floors, metal lath, metal casements, ventilators (steam heating, plumbing, ventilating and electric work separ-

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BUILDING CONSTRUCTION

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OTIS BUILDING PHILADELPHIA

ate bids). Owners taking bids, due March 19th at 4 P. M. The following are figuring: Metzger & Fisher, Denckla Building; Standard Const. Co., 1713 Sansom street; James H. Wells, Otis Building; Wm. D. Smedley, Narberth, Pa.; W. Harry Roberts, Ardmore, Pa., and Eugene G. Beard, Manarch, Pa.

Dormitory Buildings (2), Refectory Building and Boiler House, Byberry, Pa. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Health and Charities, Dr. Wilmer Krusen, Director, Room 584, City Hall, Philadelphia. Brick, steel and hollow tile, stone and terra cotta trim. Dormitory buildings (2),) stories and basement, 200x28 feet and 37x43 feet; refectory building, 1 story and basement, 109x44 feet, 37x62 feet, and 2 wings 35x18 feet; boiler house, 1 story, 43x36 feet, 34x18 feet and 15x17 feet, slate and slag roofs, asphalt, cement and pine floors, metal lath, waterproofing, dampproofing, hollow metal doors, safety treads, metal window guards, 1 elevator, metal lockers, metal weather strips, enameled brick, terrazzo work (plumbing, steam heating and electric work separate bids). Owners taking bids, due March 26th at noon. H. E. Baton, Twelfth and Sansom streets; Chas. McCaul Co., 1713 Sansom st., and E. F. Fonder, Land Title Building, are figuring.

Store Building (alt. and add.), Fourth and Market streets, Harrisburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, Dives, Pomeroy & Stewart, care of architect. Brick, 5 stories, slag or tin roof (heating reserved), sprinkler extension.

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Architect taking sub-bids, due in two weeks.

School Buildings (alt. and add.), North Washington street, Wilkes-Barre, Pa. Owners, School Board of Wilkes-Barre, Wilkes-Barre, Pa. Brick, 3 stories. Plans completed. Will be ready for bids in about ten days.

Apartment House (alt.) (six families), Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner's name withheld. Brick, frame and stucco, 3 stories, 38x66 feet, slag roof, steam heat, electric lighting, metal lath, oak floors, fire escapes, dumbwaiters, tile work. Plans in progress.

Bank Building (alt. and add.), Market Square, Harrisburg, Pa. Architects, Fahnestock & Raidabaugh, Patriot Building, Harrisburg, Pa. Owners, Union Trust Bank, Market Square, Harrisburg, Pa. Plans in progress.

Residence, Farmstead Valley road, Devon, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, C. W. Thomson, Narberth, Pa. Frame, 1½ stories, 25x55 feet, shingle roof (plumbing and heating reserved). Architect taking bids, due March 19th. Morris A. Barr, John Z. Weaver and George Billingslie, Ardmore, Pa.; Walter J. Burke, Malvern, Pa.; Wm. H. Parlamen, Devon, Pa., and J. D. Lingle, Wayne, Pa., are figuring.

Residence, Bethayres, Pa., \$8,000. Architect, E. Kenney Crothers, 5215 Chestnut street, Philadelphia. Owner, C. W. O'Neill, Jr., 328 Walnut street, Philadelphia. Hollow tile and plaster, 2½ stories, 42x24 feet, wing 12x16 feet, shingle roof, hot air heating, electric lighting, metal lath, hardwood floors, tile work. Plans in progress.

PENNSYLVANIA Contracts Awarded

Cafe (alt. and add.), West Market street, Wilkes-Barre, Pa., \$10,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owner, Adam Turkes, on premises. Consists of brick, tile and marble work, 1 and 2 stories, 150x18 feet, slag roof, steam heating, plate glass, bar fixtures, tile floors, dumbwaiters, tile and marble work. Contract awarded to Luther Roth, Wilkes-Barre, Pa.

Machine Shop (Test Cutting), Nictown, Pa., \$35,000. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Brick, steel and corrugated iron on concrete footing, 36 feet high, 1 story, 79x65 feet, slag roof, cement floors, rolled steel sash. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Residence (alt. and add.), Wynnewood, Pa., \$30,000. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Grenville D. Montgomery, Wynnewood, Pa. Stone,

2½ stories, 77x43 feet, slate roof, oak floors, weather strips, dumbwaiters, tile and marble work. Contract awarded to Graham-Campion Co., Otis Building, Philadelphia.

Parochial School, Aoca, Pa., \$33,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owner, Rev. M. F. Crane, Avoca, Pa. Brick veneer, 2 stories and basement, slag and slate roof, wood floors, steam heating, electric lighting, metal lath. Contract awarded to Turon & Schwartz, 7 West Railroad street, Pittston, Pa.

Silk Mill, Sugar Notch, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owner's name withheld. Frame, 3 stories, 50x80 feet, slag roof, steam heating, electric lighting, maple floors. Contract awarded to Charles Furgeson, Paterson, N. J.

Residence, West Pittston, Pa. Architect, B. A. Crowther, 424 Miller Building, Scranton,

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Building Construction

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Pa. Owner, S. C. Jones, West Pittston, Pa. Stucco, 2½ stories, 34x32 feet, asbestos shingle roof, steam heating, electric lighting, hardwood floors, leaded glass. Contract awarded to Joseph Sickler, Peckville, Pa.

Residence, Radnor, Pa., \$12,000. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, John F. Meigs, 2nd, North American Building, Philadelphia. Stone, 2½ stories, 26x62 feet, shingle roof, oak and pine floors, waterproofing (plumbing, heating and electric work reserved). Contract awarded to Milton W. Young, Overbrook, Pa.

Miscellaneous Construction News

Apartment House, 214 South Ninth street, Wilmington, Del. Architect, Wallace E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, James Chandler, on premises. Brick, 3 stories and basement, 32x72 feet, slag roof, hot water heating, electric lighting, metal lath, waterproofing, hardwood floors, tile and marble work. Plans in progress.

Office and Pat. (alt.), Ninth and Tatnall streets, Wilmington, Del. Architect, E. Canby May, Du Pont Building, Wilmington, Del. Owner's name withheld. Interior alterations, oak floors, tile work. Plans in progress.

Residence, West Barrington, R. I. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Arthur Smith, West Barrington, R. I. Frame and plaster, 2½ stories, 40x25 feet, shingle roof, hot air heating, electric lighting. Plans completed. Owner will take bids.

Miscellaneous Contracts Awarded

Hospital (alt. and add.), Wilmington, Del. Architect, Leon Wilde Crawford, Equitable Building, Wilmington. Owners, Wilmington Homeopathic Hospital. Brick and terra cotta, 2 stories, 60x100 feet, red tile roof, electric lighting, steam heating, hardwood and maple floors. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Agricultural Building, Morgantown, W. Va. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, University of West Virginia State Board of Control, James S. Lakin, President of Board, Charlestown, W. Va. Brick, stone, steel and terra cotta, 3 stories, 86x188 feet, slate and slag roof, steam heating, electric lighting, cement, composition and pine floors, metal lath, fire doors, elevator. Contract awarded to R. R. Kitchen, Wheeling, W. Va.

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NEW JERSEY Construction News

Y. M. H. A. Building (alt.), St. Stockton street, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton. Owners, Y. M. H. A., Trenton, N. J. Brick, 3 stories, 8x36 feet, glass bulkhead, hot water heat, electric lighting, cement floors, hollow tile, dumbwaiter. Architects have received bids.

Sewer Extension, Spring Lake, N. J. Engineers, Remington & Vosbury, Sixth and Market streets, Camden, N. J. Owners, Borough of Spring Lake, Spring Lake, N. J. Consists of about 4,000 6-inch and 8-inch terra cotta pipe and small sewage pumping station. Plans in progress.

Store and Residence, Cass and Adeline sts., Trenton, N. J. Architect, W. B. Thines, Commonwealth Building, Trenton, N. J. Owner, Louis A. Lentner, on premises. Brick, 2 stories and basement, 53x50 feet, slag roof, hot water heating, hardwood floors, combination lighting, metal lath, tile and marble work. Owner ready for bids.

Bakery, Willow and Pennington avenue, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Robert C. Kolb, on premises. Brick, 1 story, 15x44 feet, slag roof. Plans in progress.

Office Building, Greenwood and Lewis ave-

nues, Trenton, N. J., \$17,000. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owners, John E. Thropp Sons Co., on premises. Brick, 2 stories and basement, 62x38 feet, slag roof, steam heating, electric lighting, metal lath, fire doors, ventilators. Revised plans in progress.

Store and Print Shop, Hopewell, N. J. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, E. V. Savidge, Hopewell, N. J. Brick and terra cotta, 2 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, metal ceiling, store front, tile work. Revised plans in progress. Will be ready for bids about March 26th.

Store, Garage and Apartment, 1515 Derry street, Harrisburg, Pa. Architect, George H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, H. G. Day, 1307 Derry street, Harrisburg, Pa. Brick, 3 stories, 20x27 feet and 20x65 feet, slag roof, steam heating, electric work, cement and hardwood floors. Plans in progress.

Machine Shop (add.) (foundation only), Plainfield, N. J. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Reinforced concrete, 288x76 feet. Architects have received bids.

Freight Station (inbound and outbound), Camden, N. J. Architects, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Timber and corrugated iron, concrete piers, 1 story, 243x30 feet and 275x35 feet, ready roofing, pine and maple floors. Plans completed. Owners, care of G. P. Miller, Pennsylvania Station, New York City, will take bids.

Freight Office, Atlantic City, N. J. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Brick and steel, 2 stories, 50x36 feet, slag roof, hot water heating, electric lighting, metal sash, waterproofing, fire doors, pine floors, metal lockers, tile and marble work. Owners taking bids, due March 17th. F. W. Van Loon, Denckla Building; H. E. Batton, Twelfth and Sansom streets; A. L. Carhart, Hale Building, and F. A. Havens & Co., 845 North Nineteenth street; Irwin & Leighton, 126 North Twelfth street; John N. Gill & Co., Otis Building; F. L. Hoover & Sons, 1023 Cherry street; Mitchell Bros., 2125 Race street; Hogg Const. Co., 1634 Sansom street; J. Sims Wilson Co., 1125 Brown street; John R. Wiggins & Co., Otis Building, Philadelphia, are figuring.

Store and Print Shop, Hopewell, N. J. Architect, J. Osborne Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, E. V. Savidge, Hopewell, N. J. Brick and terra cotta, 2 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, metal ceiling, store front, tile work. Architect taking revised bids, due March 24th. Sutphen Bros.,

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J. H. Morris, Burton & Burton, Scott & Day, and S. W. Mather & Sons, all of Trenton, N. J., are figuring.

Office Building, Greenwood avenue and Lewis street, Trenton, N. J., \$17,000. Architect, J. O. Hunt, 114 North Montgomery avenue, Trenton, N. J. Owners, John E. Thropp & Sons Co., on premises. Brick, 2 stories and basement, 62x38 feet, slag roof, steam heating, electric lighting, metal lath, fire doors, ventilators. Architect taking revised bids, due March 19th. S. W. Mather & Sons, Canal and Greenwood streets; Burton & Burton, American Mechanics' Building; J. H. Morris, Charles Randall, 43 North Hermitage street; Ed. La Rue, 53 South Hermitage street, and Scott & Day, all of Trenton, N. J., are figuring.

Club House, 221 North Warren street, Trenton, N. J. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, Knights of Columbus Building Association, on premises. Brick, 2 stories, 46x73 feet, slag roof, vapor vacuum heating, electric lighting, metal lath, maple floors, metal lockers, tile and marble work (heating, electric work and plumbing reserved). Architect taking bids, due March 20th. The following are figuring: Day & Dugan, Joseph Grugan, Scott & Day, and Charles J. Smith, all of Trenton, N. J.; on mason work, C. Y. Barlow, 149 Elmhurst street; A. J. Brier, 37 General Green; Salan & Dotter, all of Trenton, and P. J. O'Neill, Yardley, Pa., on carpenter work.

Department Store, Broad and Front streets, Trenton, N. J. Architects, Kleeman & Fowler, Second National Bank Building, Trenton,

N. J. Owners, Goldberg Department Store Co., Trenton, N. J. Brick, 4 stories, 22x220 feet, slag roof, steam heating, electric lighting, metal lath, sprinklers, tile and marble work, hardwood floors, 1 elevator, weather strips. Plans in progress.

Bakery (add.), Willow and Pennington avenue, Trenton, N. J. Architects, J. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Robert C. Kolb, on premises. Brick, 1 story, 15x44 feet, slag roof. Architect ready for bids.

Bulkhead and Basin, Trenton, N. J. Engineer, J. W. Thompson, Broad Street Bank Building, Trenton, N. J. Owners, City of Trenton, N. J., J. R. Fell, City Commissioner. Timber and concrete, 1120 feet long. Lowest bidder, Louis Sieling, 117 Madison avenue, New York City.

Residence, Merchantville, N. J., \$6,000. Architects, Moffett & Stewart, Inc., 30 West Third street, Camden, N. J. Owner's name withheld. Frame and stucco, 2½ stories, 32x44 feet, slate roof, hot water heating, combination lighting, metal lath, oak and gum floors, hollow tile, tile and marble work, gasoline storage system (heating, wiring and plumbing reserved). Architect ready for bids.

Store (alt. and add.), 802 Broadway, Camden, N. J., \$5,000. Architects, Moffett & Stewart, Inc., 30 north Third street, Camden, N. J. Owners, Friant Music Co., care of architects. Brick, 3 stories, 17x80 feet, slag roof (hot water heating and plumbing reserved), combination lighting, metal lath, tile and marble work, gum floors, store fixtures. Architects will take bids in a few days.

crete foundations, slag roof, iron work, plumbing, sheet metal, hardware. Architect will take sub-bids.

Residences, 300-322 East Thirty-third street, Baltimore, Md., \$36,000. Architect, Harry Storek, Munsey Building, Baltimore, Md. Owner, E. J. Storek, 623-24 Munsey Building, Baltimore, Md. Brick, 2 stories, 15x53 feet. Owner will sub-let all work.

Maryland

Contracts Awarded

Store (alts. and adds.), northwest corner of Caroline and Preston streets, Baltimore, Md., \$3,000. Architect, J. E. Lafert, 11 East Pleasant street, Baltimore, Md. Owner, L. S. Williams, northwest corner of Caroline and Preston streets, Baltimore, Md. Brick, 2 stories, new front, electric lighting, sheet metal. Contract awarded to McIver Const. Co., Law Building, Baltimore, Md.

School, No. 61 (alts.), Linden avenue and Koenig street, Baltimore, Md., \$1,757. Architect, private plans. Owners, City of Baltimore, Baltimore, Md. Stone, mill work, plastering, blackboards, metal ceilings, glazing, painting, heating. Contract awarded to J. J. Walsh & Son, 1533 Maryland avenue, Baltimore, Md.

Club House, 2100-2-4 Ashland avenue, Baltimore, Md., \$13,000. Architect, private plans. Owners, Seventh Ward Bohemian Democratic Club, 2233 East Madison street, Baltimore, Md. Brick, 3 stories and basement, marble trim, composition roof, steam or hot water heat, electric lighting, plastering, painting, plumbing, interior tile. Contract awarded to Fred Decker & Son, 1209 East Biddle street, Baltimore, Md.

Purifier House, Spring Gardens, Baltimore, Md. Architect, private plans. Owners, Consolidated Gas, Electric Light and Power Co., Lexington and Liberty streets. Brick, 3 stories, 90x111 feet, concrete foundations, slate roof, dampproofing, galvanized iron work, crane, elevators and conveyors reserved. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Tool House, Pennsylvania Railroad tracks near Bond street, Baltimore, Md., \$4,500. Architect, private plans. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia, Pa. Brick, slag roof, electric lighting, concrete work. Contract awarded to Edw. Brady & Son, 1109 Cathedral street, Baltimore, Md.

NEW JERSEY

Contracts Awarded

Factory Building, East State street, Trenton, N. J., \$14,000. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owners, De Lion Tire and Rubber Co., Trenton, N. J. Brick, 1 story, 50x112 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to Scott & Day, 114 North Montgomery street, Trenton.

Connecting Bridge, Front and Market sts., Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Plaster on steel, slag roof, reinforced concrete floors, metal lath, rolling steel shutters. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

MARYLAND

Construction News

Bank and Office Building, Holliday and Baltimore street, Baltimore, Md. Architects, Baldwin & Pennington, 330 North Charles street, Baltimore, Md. Owners, German Bank, John P. Lauber, vice-president, Holliday and Baltimore streets, Baltimore, Md. Brick, terra cotta and stone, 4 stories, slag roof, steam heat, electric lighting, steel and iron work, ornamental iron work, copper work, skylights, ventilators, vault lights, reinforced concrete, fireproofing, dampproofing, plastering, painting, interior tile, marble, slate or terrazzo work. Plans in progress.

Factory, Salisbury, Md. Architects, Owens & Sisco, Continental Building, Baltimore, Md. Owners, Jackson, Gutman & Co., Salisbury, Md. Brick, 2 stories, 50x275 feet, slag roof. Plans in progress.

Warehouse (add.), West Fayette street, near

Howard street, Baltimore, Md. Architects, Smith & May, 1133 Calvert Building, Baltimore, Md. Owners, Eisenberg's Underselling Store, 213-15 West Lexington street, Baltimore, Md. Brick, 5 or 6 stories, slag roof, electric lights, plumbing, iron work. Plans ready for bids.

Residence, Springdale and Clarendon avenues, Forest Park, Baltimore, Md., \$4,000. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore, Md. Owner, B. E. Heinz, 611 West North avenue, Baltimore, Md. Frame, 2½ stories, 28x30 feet, shingle roof, hot water heat, electric lighting. Owner is taking bids.

Store Building, 325 North Calvert street, Baltimore, Md. Architect, A. Cookman Leach, 323 North Charles street, Baltimore, Md. Owner, James Harry Preston, City Hall, Baltimore, Md. Brick, 3 stories, 27x100 feet, con-

TO MEASURE AN ACRE.

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5 yards wide by 968	yards long is 1 acre.
10 yards wide by 484	yards long is 1 acre.
20 yards wide by 242	yards long is 1 acre.
40 yards wide by 121	yards long is 1 acre.
80 yards wide by 60½	yards long is 1 acre.
70 yards wide by 69½	yards long is 1 acre.

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Permits for New Buildings

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Philadelphia

Dwelling, southwest corner Ninth and An-nin streets, \$4,300. D. Venuti (O), Ninth and Montrose streets. V. Cerositi (C), 1231 Christian street. Brick, 3 stories, slag roof, 16x41 feet, hot water heating.

Dwelling, Broad and Nedro streets, \$15,000. Dr. S. B. Davis (O), on premises. Frederick Storck (C), 3519 North Thirteenth street. Brick, 3 stories, 22x85 feet, slate roof, hot water heating.

Garage, 2311 North Eighth street, \$2,600. John Witzel (O), 2328 Germantown avenue. Frederick Storck (C), 3519 North Thirteenth street. Brick, 1 story, 20x80 feet.

Garage, 2717 West Somerset street, \$365. J. Van Roden (O), on premises. M. H. Brown (C), 2718 North Twenty-eighth street. Brick, 1 story, 10x16 feet, slag roof.

Garage, Percy street, south of South street, \$500. Henry Jacoby (O), Ninth and South streets. Max Chipin (C), 2151 North Franklin street. Brick, 1 story, 24x18 feet, slag roof.

Dwellings (2), 5347-49 James street, \$4,200. George Crosley (O and C), 2264 Bridge street. Brick, 2 stories, 14x45 feet, slag roof, hot water heating.

Storage, 6075-77 Stenton avenue, \$500. M. J. Gaugh (O), on premises. A. M. Lance (C), Haines street and Limekiln pike. Brick, 1 story, 20x20 feet, slag roof.

Garage, 926 Wynnewood road, \$900. Geo. E. Tanner (O), on premises. Alfonso Verdi (C), 6145 West Girard avenue. Stone, 1 story, 18x19 feet, slag roof.

Textile mill, 5106-14 Germantown avenue, \$30,000. J. P. Richmond (O), Oak Lane. R. W. Peterson & Sons (C), 5250 Wakefield street. Brick, 2 stories, 17x107 feet, slag roof, steam heating.

Dwellings (10), east side of Tenth street, south of Ruscomb street, \$25,000. W. Fischer (O and C), 4400 North Franklin st. Brick, 2 stories, 15x35 feet, slag roof, hot water heating.

Stores (4), 328-30-32-34 North Front street, \$17,000. J. Costello (O), Twenty-second and Spring Garden streets. Tony Brassi (C), 702 South Sixth street. Brick, 2 stories, 16x16 feet, slag roof.

Garage, 5005 Wayne avenue, \$1,000. Emma Bishop (O), Seymour and Keyser street, Hut-mehan & Behns, Inc. (C), 243 West Seymour street. Brick, 1 story, 60x16 feet, slag roof.

Dwellings (17), east side of Courtland st., south of Tenth street, \$40,800. Norman Sinclair (O and C), 1324 Walnut street. Brick, 2 stories, 15x30 feet, slag roof, hot water heating.

Dwellings (2), 514-16 West Somerville ave-nue, \$3,750. M. H. Riegel (O and C), 121 West Olney avenue. Brick, 2 stories, 16x42 feet, slag roof, hot water heating.

Dwelling, Unruh street, west of J street, \$2,000. Robert Stewart (O and C), 1018 Hill-erman street. Brick, 2 stories, 16x40 feet, asbestos roof, hot water heating.

Dwellings (2), Arbutus, west from Phil Ellena, \$14,000. Robert Killough (O and C), Wayne avenue and Duval street. Stone, 3 stories, 25x33 feet, slate roof, hot water heat-ing.

Garage, Twenty-fourth and Cambria sts., \$400. D. W. Colford (O), 2901 North Twenty-fourth street. Vandyke & Dawson (C), 337 Delmar street. Brick, 1 story, 8x14 feet, slag roof.

Machine Shop, Wheatsheaf lane and Sepivia street, \$90,000. American Eng. Co. (O), Phil-adelphia. Austin Co. (C), 53 Transportation Building. Iron, 1 story, 55x300 feet.

Store and Dwelling, 604 South Ninth street, \$7,800. Henry Jacoby (O), Ninth and South streets. Max Chipin (C), 2151 Franklin st. Brick, 3 stories, 21x35 feet, slag roof, hot water heating.

Dwelling, southwest corner Cambria and Edgemont streets, \$4,800. Isaac Koch (O), on premises. Jake Newborn (C), 1731 North Eighth street. Brick, 2 stories, 20x60 feet, slag roof, hot water heating.

Garage, south side of Somerville, west of Fifth street, \$4,500. M. H. Riegel (O and C), 121 West Olney avenue. Brick, 1 story, 50x90 feet, slag roof, steam heating.

Dwelling, 4325 North Darien street, \$1,500. Baulerle & Erney (O and C), 4301 North Sev-enth street. Brick, 2 stories, 15x23 feet, slag roof, hot air heating.

Dwellings (16), west side of Seventh, north of Olney avenue, \$40,000. Henry Bauer (O and C), Seventh and Chew streets. Brick, 2 stories, 16x32 feet, slag roof, hot water heat-ing.

Warehouse, Wilmont and Belgrade streets, \$8,500. Thompson-Adams Leather Co. (O), Or-thodox and Frankford Creek. E. R. Hall & Bro. (C), 34 South Seventeenth street. Brick, 1 story, 124x52 feet.

Dwellings (16), 414-440 Ashdale street, \$40,-000. Wm. Baltz (O and C), 709 Butler street.

Alterations and Additions

Store and dwelling, 4671 Lancaster avenue, \$3,350. Empire Title and Trust Co. (O), Forty-fourth and Lancaster avenue. F. I. Wentz (C), 1618 North Twenty-seventh st. Philadelphia. General alterations.

Office building, 1711 Filbert street, \$1,000. P. R. R. Co. (O), Broad Street Station. Harry Rust (C), 19 South Eighth street. Fireproof windows on fourth and fifth floors.

Store and dwelling, 243 South Fifth street. M. Lenan (O), 239 South Fifth street. Simon Mogul (C), 309 South Fifth street. Interior alterations.

Stores, 4002-04-06-08 Market street, \$3,000. W. H. Quick (O), 8 South Fortieth street. LeRoy K. Smith (C), Forty-first and Chester avenue. Flush bulks, interior repairs.

Dwelling, 202 Filbert street, \$1,600. Christ Church (O). D. Henwood (C), 1509 Wood street. Minor alterations.

Church and dwelling, 1235 North Second street, \$200. Christian Klenk (O), on prem-ises. B. Landan (C), 1216 North Fourth st. Hote water heating.

Dwellings (4), Columbia and Germantown avenues, \$10,000. J. B. Stetson Co. (O), Ger-mantown and Montgomery avenues. Jas. D. Dorney (C), 1204 East Allegheny avenue. Demolish unoccupied houses.

Cold storage building, 152 Laurel street, \$1,000. Wm. Moland (O), on premises. J. Reilly (C), 1933 Market street. Alterations.

Garage (add.), 4917 Wayne avenue, \$1,300. Tony Angelo (O), 4416 Wayne avenue. Chas. Danolis (C), 228 East Haines street. Brick, 1 story addition, 43x30 feet.

Brick, 2 stories, 15x28 feet, slag roof, hot water heating.

Tenement House, 5005 Wayne avenue, \$16,-000. E. A. Bishop (O), Seymour and Keyser streets. Hutchinson & Bibus (C), 243 West Seymour street. Brick, 3 stories, 34x65 feet, slag roof, steam heating.

Warehouse, 758 South Fifth street, \$2,500. M. Margulis (O), on premises. M. Brownstein (C), 1013 Jackson street. Brick, 3 stories, 32x32 feet, slag roof.

Dwelling, Hartwell and Navahoe streets, \$11,700. Wolverton & Collins (O and C), 28 East Willow Grove avenue. Stone, 3 stories, 34x26 feet, slate roof, hot air heating.

Garage, Hartwell and Navahoe streets, \$800. George Woodward (O), North Ameri-can Building. Wolverton & Collins (C), 28 East Willow Grove avenue. Stone, 1 story, 13x26 feet, slate roof.

Garage, Johnson street, west of Wayne ave-nue, \$600. H. J. Hoffman (O), Bailey Build-ing. Dan Robinson (C), 222 West Huval street. Stone, 1 story, 23x23 feet, slag roof.

Bank and Offices, Seventh and Moyamen-sing avenue, \$18,000. William Pleth (O), Penn Square Building. Penn Realty and Const. Co. (C), Ogontz, above Chelten ave-nue. Brick, 8 stories, 26x26 feet, slag roof, hot water heating.

Dwellings (2), Ruscomb street, west of Broad, \$12,000. Penn Realty and Const. Co. (O and C), 128 East Walnut lane. Brick, 2 stories, 18x23 feet, slag roof, hot water heat-ing.

Dwellings (2), 2225-27 South Seventh st., \$6,000. P. Davis (O and C), 1514 East Moy-amensing avenue. Brick, 3 stories, 14x24 feet, slag roof, hot air heating.

Dwellings (6), 2913-15-17-19-21 Hartville, \$6,000. S. Fuld (O and C), 545 East Cambria. Brick, 2 stories, 14x27 feet, slag roof, hot water heating.

Boiler house, Fourth and Arch streets, \$9,-400. Ketterlinus Lithographing Co. (O), Fourth and Arch streets. Philip Haibach Const. Co. (C), 1261 North Twenty-sixth st. New boiler house, brick, repairs.

Stores and offices, 900 Chestnut street, \$10,-000. Lea Estates (O), 700 Sansom street. Henon & Boyle (C), 10 South Eighteenth street. New flush bulks, repairs.

Store, 1230 Chestnut street, \$800. Mont-gomery & Reggs (O and C), 105 North For-tieth street, New York. New entrance and bulks.

Store, 814 Arch street, \$3,850. Girard Trust Co. (O), Broad and Chestnut streets. J. M. Daniels (O), 252 South Juniper street. Brick, 1 story addition, 43x20 feet, slag roof.

Dwelling, 526 Carpenter street, \$425. Jas. Greenbaum (O), on premises. M. Cipallo (C), 834 Dickinson street. Flush bulks.

Store and dwelling, 4303-06 Germantown avenue, \$1,700. Isaac Spritzler (O), on prem-ises. Philip Savar (C), 718 Snyder avenue. Remodel flush bulk, interior alteration.

Store and dwelling, 4226 Germantown ave-nue. \$500. Harry Adler (O), on premises. Philip Lavar (C), 718 Snyder avenue. Brick, 1 story addition, 12x18 feet, slag roof.

Store and warehouse, 608 South street, \$10,-000. Levick & Waldow (O), 1829 S. Seventh street. Bierns & Cylinder (C), 521 Mifflin street. Brick, 2 stories, 40x47 feet, 20x70 feet, slag roof.

Milk plant, 3041-3 Chestnut street, \$500. Abbotts Alderney Dairies (O), on premises. Wm. Hackett (C), 335 North Fifty-second

street. Brick and concrete platform.

Stable, Thirtieth and Walnut streets, \$1,200. Thos. Gerity (O), on premises. Penna. R. R. Co. (C), Broad Street Station. Repairs to stable.

Storage House, 226 East Rittenhouse street, \$400. Tull Estate (O), 5823 Germantown avenue. George C. Farrell (C), 5606 Utah street. Repairs.

Store and dwelling, 1724 South Ninth street, \$300. C. C. Baldi & Bros. (O), Ninth and Montrose streets. A. DeMano (C), 1224 Chestnut street. Alterations.

Garage, Church lane, east of Germantown avenue, \$1,600. P. Buller (O), care of Chelton Trust Co., 5614 Germantown avenue. Conneen Const. Co. (C), 1737 Filbert street. Repairs.

Slaughter House, 448 North Marshall street. Harry oKssel (O and C), on premises. One-story side addition, brick, 13x20 feet.

Tenement House, 1810 Berks street, \$1,200. Alex Elder (O and C), 158 Manheim street. Alterations to interior.

Store Building, 1027-29 Market street, \$14,500. Earle Stores (O), on premises. O'Meara Const. Co. (C), 253 South Quince street. New bulks.

Store, Broad and Ruscomb streets, \$1,000. Preston Butler (O), 128 East Walnut lane. Penn Realty and Const. Co. (C), 128 East Walnut lane. Three-story addition, brick, 18x9 feet.

Store, 21 South Eleventh street, \$300. Jos. Steele (O), 1600 Arch street. Basch & Co. (C), 1420 South Front street. Flush bulk windows.

Office and store, 675 North Twelfth street, \$300. Victor Getz (O), 345 North Twelfth street. John Dillon (C), 1848 North Front street. One-story addition, brick, 12x12 feet, slag roof.

Store, 808 Arch street, \$450. L. Dannenbaum & Sons (O), 930 Market street. Frank Stewart (C), 1619 Sansom street. Repairs.

Dwelling, Frankford and Linden avenue, \$2,700. John C. Koeh (O), 2045 East Cumberland street. A. W. J. Williams (C), 9228 Walker street. One-story bungalow, frame, 26x42 feet, slate roof.

Store and Dwelling, Sixty-third and Woodland avenue. John Kelly (O), 6400 Paschall avenue. Francis Schad (C), 2319 South Sixty-fourth street. Flush bulks.

Residence, Evergreen and Prospect streets, \$2,000. William Lister (O), on premises. David McCrook (C), Flourtown. General alterations.

College Building, Broad and Berks streets, \$6,500. Temple University (O), on premises. E. Beckenhoff (C), 5153 Chestnut street. Fireproof petitions.

Dwelling, Southampton road, east of Cemetery road, \$1,400. Nick Dole (O), Byberry, Pa. H. Stevens (C), Lamerton, Pa. Two-story front addition, 28x16 feet, one-story front addition, 14x12 feet, brick, slag roof.

Offices, 121 Chestnut street, \$1,200. C. H. McFadden (O), 119 Chestnut street. J. S. Cornell & Son (C), Land Title Building. New double flue for heaters.

Store, Second and Hancock streets, \$4,488. Bell Co. (O), Hancock and Laurel streets. Carter Paving Co. (C), 641 North Eighteenth street. Reinforced concrete.

Machine Shop, 943-53 North Front street, \$31,000. H. L. Winterer (O), on premises. Stewart Bros. (C), 2546 North Orkney street. One story and basement.

Home, Fifty-eighth and Baltimore avenue, \$1,935. Church Home for Children (O), on premises. James K. Ingram (C), Lansdowne, Pa. One-story addition, 13x13 feet, brick, slag roof.

Coal Pocket, Dauphin and Sedgley ave, \$7,200. John Williams (O and C), on prem-

ises. Concrete foundation, lumber construction.

Factory, 1530 North Hancock street, \$2,700. M. Halpern & Son (O), on premises. Isaac Noogan (C), 720 Norris street. One-story addition, brick, 16x56 feet, slag roof.

Manufacturing Building, 514 Pine street, \$800. Adolph Mark (O and C), 721 Walnut street. Alterations.

Apartments, Thirty-sixth and Chestnut streets, \$1,000. Normandie Apartment Co. (O), on premises. Standard Const. Co. (C), 827 Presser Building. New floors.

Office, 23 South Seventeenth street, \$2,000. Leon Dalsimer (O), Hotel Loraine. J. H. Hutt (C), 5919 Spruce street. General repairs.

Shoe Store, 4809 North Front street, \$1,000. Jacob Fellon (O), Second street pike and Tabor road. R. H. Ingram & Son (C), 4805 North Front street. Two-story addition, brick, 15x19 feet, slag roof.

Factory, Nineteenth and Parrish streets, \$600. A. R. King Shoe Co. (O), on premises. Fred A. Havens (C), 845 North Nineteenth street. Erect fire doors.

Shed, 4340 North Fourth street, \$950. Louis Schonberger (O), 4340 North Fourth street. George Zeigerfus (C), 3809 North Seventh street. One-story addition shed, brick, 32x20 feet.

Office, 18 South Delaware avenue, \$980. Baugh & Sons Co. (O), 20 South Delaware avenue. J. Morris Daniels (C), 252 South Juniper street. Interior alterations, install heating and lighting.

Store Building, 347 North Eleventh street, \$850. R. A. Humphreys Sons (O), 1023 Callowhill street. Edward B. McCall (C), Sixty-fifth and Park avenue. Flush bulk repairs.

Restaurant, 4803 Wayne avenue, \$900. Mr. Waterman (O), on premises. Wayne Junction Metal Co. (C), 4545 Wayne avenue. Iron, 1 story, 13x22 feet.

Dwelling, 302 Catherine street, \$400. M. Gordon (O), on premises. Max Katz (C), 778 South Fifth street. Repairs.

Factory, 2011 East Arizona street, \$1,600. Harry Walstenroft (O), on premises. Harry Brockelhurst (C), 512 West Norris street. Repair fire damage.

Open Shed, Luzerne, east of Witaker avenue, \$300. Mack Pan. and Const. Co. (O and C), Twentieth and Sedgley avenue. One-story shed, 16x125 feet, slag roof.

Storage and Warehouse, 804 Passyunk avenue, \$875. Adolph Kempler (O), 806 South Sixth street. Hogg Const. Co. (C), 1634 Sansom street. Three-story addition, brick, 16x16 feet, repairs.

Store and Dwelling, 1329 North Eleventh street, \$700. Max Green (O), on premises. Max Sussman (C), 608 North Franklin street. Repair fire damage.

Garage, 600 Church lane, \$900. T. B. Stork (O), 600 Church lane. Howard Trexler (C), 212 East Horder street. Repair fire damage.

Saloon, Forty-eighth and Brown streets, \$4,500. James M. Quinlan (O), on premises. Kramer Woodworking Co. (C), Third and Cumberland streets. General alterations.

Dwelling, 129 North Sixty-third street, \$600. Edgar Hale (O and C), on premises. One-story addition, brick, 12x14 feet, tin roof.

Drug store and Offices, Twenty-fourth and Cambria streets, \$800. D. W. Catford (O), 2901 North Twenty-fourth street. Vandyke & Dawson (C), 337 Delvar street. Two-story addition, 11x18 feet, brick, slag roof.

Store, 215 North Eleventh street, Philadelphia, \$2,000. Benj. Alexander (O), 1326 Chestnut street. Frank Lucci (C), 1603 Ellsworth street. Brick, 2 story addition, 20x38 feet, slag roof; 1 story addition, 20x50 feet, flush bulks.

Store, 209 South Thirteenth street, \$4,000. The Provident Life Ins. and Trust Co. (O), 409 Chestnut street. A. P. Fraim (C), 319

Market street. Repair fire damage.

Factory, 121 North Second street, \$1,800. Miss Alice Machie (O), Sharon Hill. H. E. Grau Co. (C), 1707 Sansom street. Repair fire damage.

Dwelling, 429 Carpenter street, \$400. Jas. F. Eckard (O), 734 South Second street. Louis Cohen (C), 922 North Orianna street. Alterations to front window.

Manufacturing building, 38 South Third street, Philadelphia, \$300. M. H. Beckley (O and C), Chester, Pa. Flush bulks.

Shed, 1037 North Delaware avenue. Penna. Sugar Co. (O and C), on premises. Iron, 7 stories, 15x15 feet.

Manufacturing building, Homestead and Mulnor streets, \$1,400. Hebig Silk Mills (O), on premises. F. W. Van Loon (C), Denckla Building. Iron, 1 story addition, 10x68 feet, slag roof.

Boiler house, Eighteenth and Lehigh avenue, \$1,700. E. H. Wheeler Mfg. Co. (O), on premises. R. M. Peterson (C), 5250 Wakefield street. Brick, 1 story addition, 18x12 feet, slag roof.

Garage, Fifty-third and Thomas avenue, \$2,000. Southwestern Garage (O), on premises. A. Sharp (C), 5237 Baltimore avenue. Alterations.

Store, 5330 Germantown avenue, \$300. D. A. Jester (O), on premises. Henry A. Hobert (C), 2620 East Cumberland street. New flush bulks.

Office, Broad and Fairmount avenue, \$375. W. L. Nevin (O), on premises. F. L. Hoover & Son (C), 1023 Cherry street. General alteration.

Dairy, 2913-15 North Orkney street, \$2,000. Henry Hauptfner (O), 2900 North Lawrence street. Wm. J. James (C), 2927 North Fifth street, Philadelphia. Brick, 1 story addition, 20x12 feet, slag roof.

Bank, 223 Market street, Philadelphia, \$800. National State Bank of Camden (O), on premises. Harry Rust (C), 19 South Eighth street. Alteration to window.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Office, Washington, D. C., March 1, 1917.—Sealed proposals will be opened in this office at 3 p. m., April 26, 1917, for the construction of the United States post office at Fremont, Ohio. Drawings and specifications may be obtained from the custodian of the site at Fremont, Ohio, or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after March 15, 1917. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 6, 1917.—Sealed proposals will be opened in this office at 3 P. M., April 18, 1917, for the construction of the United States post office at East Orange, N. J. Drawings and specifications may be obtained from the custodian of the site at East Orange, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.
John B. Rulon.....1355 Colwyn st., Phila.

Artists' and Architects' Supplies.

Chas. H. Robbins.....125 S. 11th st., Phila.
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F. Weber & Co.....1125 Chestnut st., Phila.

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F. Weber & Co.....1125 Chestnut st., Phila.

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Chas. H. Robbins.....125 S. 11th st., Phila.

Brick (Face, Etc.).

O. W. Ketcham.....Builders' Exchange, Phila

Brick Renovating.

Adolph Christensen.....1433 Brown st., Phila.

Builders.

Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.

Builders' Supplies.

P. H. Fairlamb Co.....115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.

Cement.

P. H. Fairlamb Co.....115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.
Samuel H. French & Co.,
4th and Callowhill sts., Phila.
Lehigh Portland Cement Co. Penna. Bldg., Phila.

Cement Colors.

Samuel H. French & Co...4th and Callowhill sts.

Columns (Metal).

Pearce Fireproof Co.....1345 Arch st., Phila.

Composition Flooring.

Philadelphia Mineral Flooring Co.,
5632 Summer st., Phila.
The Marbleoid Co. ..Pennsylvania Bldg., Phila.

Dampproofing.

The Barrett Co.....New York City and Phila.

Door Hangers.

Grant Pulley and Hardware Co.,
3 W. 29th st., N. Y., & Land Title Bldg., Phila.

Drawing Materials.

Charles H. Robbins.....125 S. 11th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Electrical Specialties.

Large-Dail Mfg. Co.....606 Cherry st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1620 Chancellor st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts., Phila.

Elevators.

A. B. See Electric Elevator Co.,
Land Title Bldg., Phila.

Engineers' Supplies.

Charles H. Robbins.....125 S. 11th st., Phila.
Warren-Knight Co.....136 N. 12th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg., Phila.

Fire Doors.

Merchant & Evans Co.,
2035 Washington ave., Phila.

Fireproofing.

Consolidated Expanded Metal Co.,
2200 Arch st., Phila.
Pearce Fireproof Co.....1345 Arch st., Phila.

Floor Plates.

Alan Wood Iron and Steel Co.,
Widener Bldg., Phila.

Furnaces.

Abram Cox Stove Co.,
American and Dauphin sts., Phila.

Furnaces and Ranges.

Borden Stove Co.....118 N. 2d st., Phila.
Abram Cox Stove Co.,
American and Dauphin sts., Phila.
Henry M. Miller.....46-48-50 N. 2d st., Phila.
Richardson and Boynton Co..1342 Arch st., Phila.

Galvanized Iron Paint.

American Chemical Paint Co.1118 S.11th st., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Granite.

Holmesburg Granite Co.,
Commercial Trust Bldg., Phila.

Heating Contractors.

Bowers Bros. & Co.1629 Ludlow st., Phila.

Heating Boilers.

Richardson and Boynton Co..1342 Arch st., Phila.

Insurance.

Harris J. Latta.....Penna. Bldg., Phila.

Lumber.

Howard Ketcham.....3d and Girard ave., Phila.
James E. Tague & Co.,
10th and Columbia ave., Phila.

Marble Mosaic.

Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.

Metal Lath.

Consolidated Expanded Metal Co.,
2200 Arch st., Phila.
Pearce Fireproof Co.....1345 Arch st., Phila.

Meters.

Philadelphia Meter Co.,
Real Estate Trust Bldg., Phila.

Mill Supplies.

The Fairbanks Co.....7th and Arch sts., Phila.

Mortar Colors.

Samuel H. French & Co.,
4th and Callowhill sts., Phila.

Nurseries.

The Garden Nurseries.....Narberth, Pa.

Paint for Galvanized Iron.

American Chemical Paint Co.1118 S.11th st., Phila.

Paints and Varnishes.

Felton, Sibley & Co.....136 N. 4th st., Phila.
Samuel H. French & Co..4th and Callowhill sts.
Eugene E. Nice.....268 S. 2nd st., Phila.

Pipe Fittings and Valves.

The Fairbanks Co.....7th and Arch sts., Phila.

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N. J. Pulp Plaster Co.....Trenton, N. J.

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Fleck Bros. Co.....44 N. 5th st., Phila.
James A. Vogel Co.....Wilmington, Del.

Preservatives (Wood and Concrete).

The Barrett Co.....New York City and Phila.
F. E. Sagendorph....24th and Walnut sts., Phila.

Ranges.

Borden Stove Co.....118 N. 2d st., Phila.
Henry M. Miller.....46-48-50 N. 2d st., Phila.

Refrigerators.

Borden Stove Co.....118 N. 2d st., Phila.
Henry M. Miller.....46-48-50 N. 2d st., Phila.

Roofing.

The Barrett Co.....New York City and Phila.

Roofing Slate.

C. F. Shellenberger...Builders' Exchange, Phila.

Roofing Tile.

O. W. Ketcham.....Builders' Exchange, Phila.
C. F. Shellenberger...Builders' Exchange, Phila.

Rust Proof Processes.

American Chemical Paint Co.1118 S.11th st., Phila.

Sash Pulleys.

Grant Pulley and Hardware Co.,
3 W. 29th st., N. Y., & Land Title Bldg., Phila.

Scales.

The Fairbanks Co.....7th and Arch sts., Phila.

Sewer Pipe and Flue Linings.

C. F. Shellenberger...Builders' Exchange, Phila.

Sewage Disposal.

Harrison, Mertz & Emlen, Inc.,
Commercial Trust Bldg., Phila.

Soundings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.
John B. Rulon.....1355 Colwyn st., Phila.

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Water Supply.

Harrison, Mertz & Emlen, Inc.,
Commercial Trust Bldg., Phila.

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Diamond Flexible Metal Weather Strip Co.,
Geo. R. C. Johnston.....Drexel Bldg., Phila.
S. B. MacDowell & Son,
1927 Montgomery ave., Phila.

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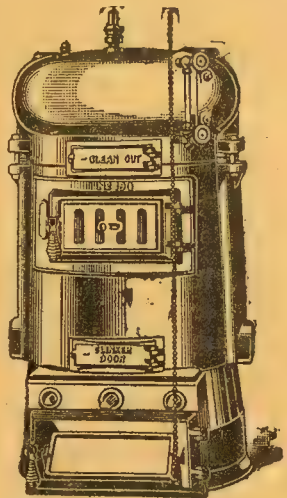
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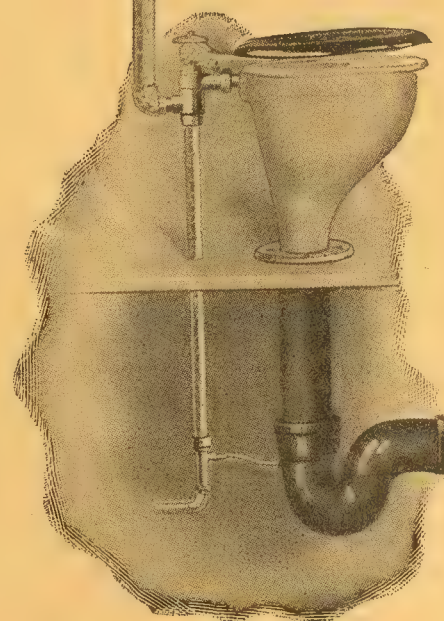
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ANNOUNCEMENT

Knowing that many of the Contractors and Engineers of Philadelphia and vicinity were unable to visit the Cement Show at Chicago, the various firms named below will, during the week of March 19th, 1917, make a special exhibit at the Larkin Building, Twenty-second and Arch Streets, Philadelphia. Pa.

We extend a cordial invitation to the members of your organization to inspect these lines in anticipation of your needs during the season of 1917.

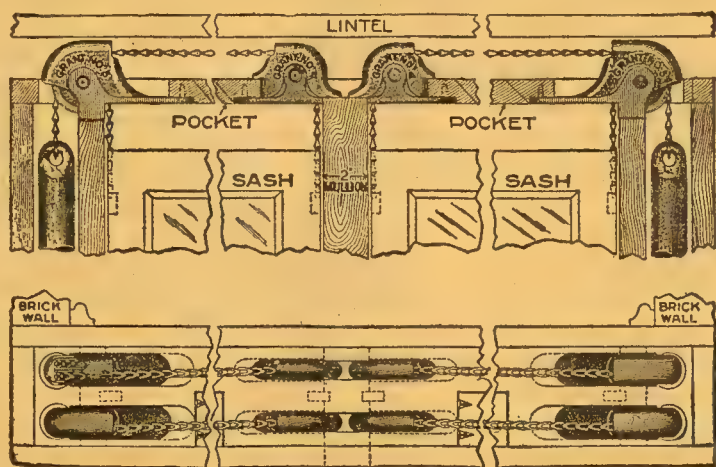
The Knickerbocker Company
The Ideal Engine Company

Exhibit open during week from 8.30 A. M. to 4.30 P. M.

Consolidated Exp. Metal Co.'s
Cement Gun Company, Inc.

(Demonstration 2 P. M. Daily)

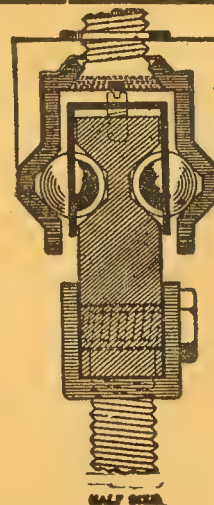
Catalogs showing these lines upon request.



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Builders' Guide

ENTERED AT THE PHILADELPHIA POST-OFFICE AS SECOND-CLASS MATTER

Vol. XXXII., No. 12
March 21, 1917

ISSUED WEEKLY IN THE INTERESTS OF ARCHITECTS, STRUCTURAL ENGINEERS,
CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

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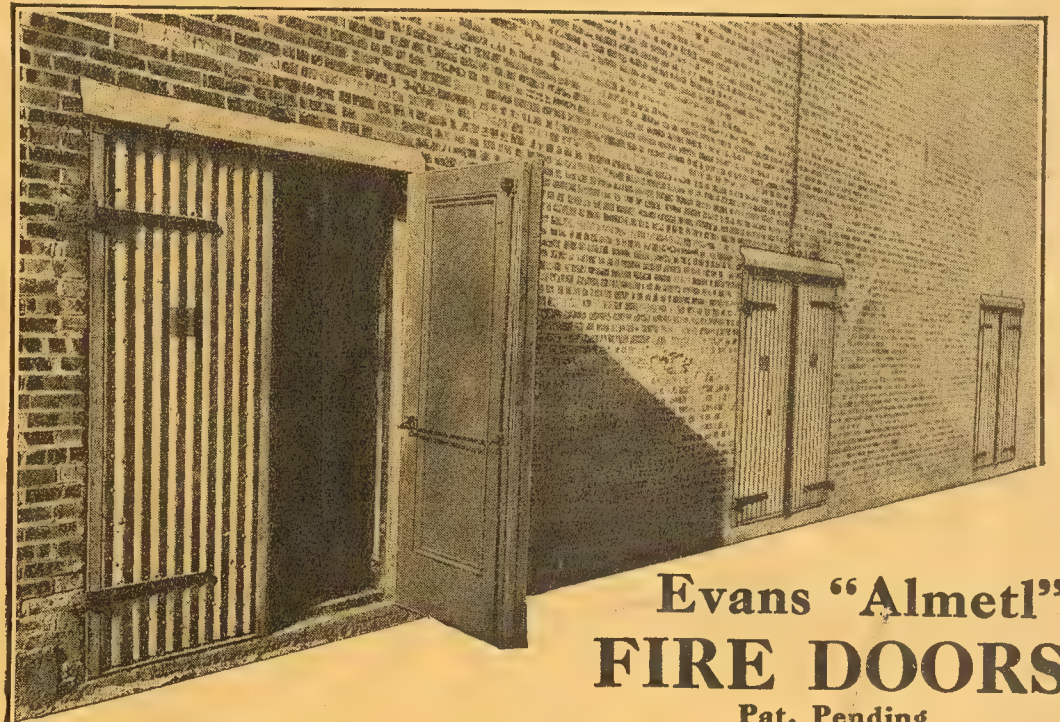
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are rapidly becoming standard equipment wherever safety is the first consideration. Of rigid, all-steel and asbestos construction, light in weight, durable and fire proof. The illustration shows the application of metal trim for an interior finish.

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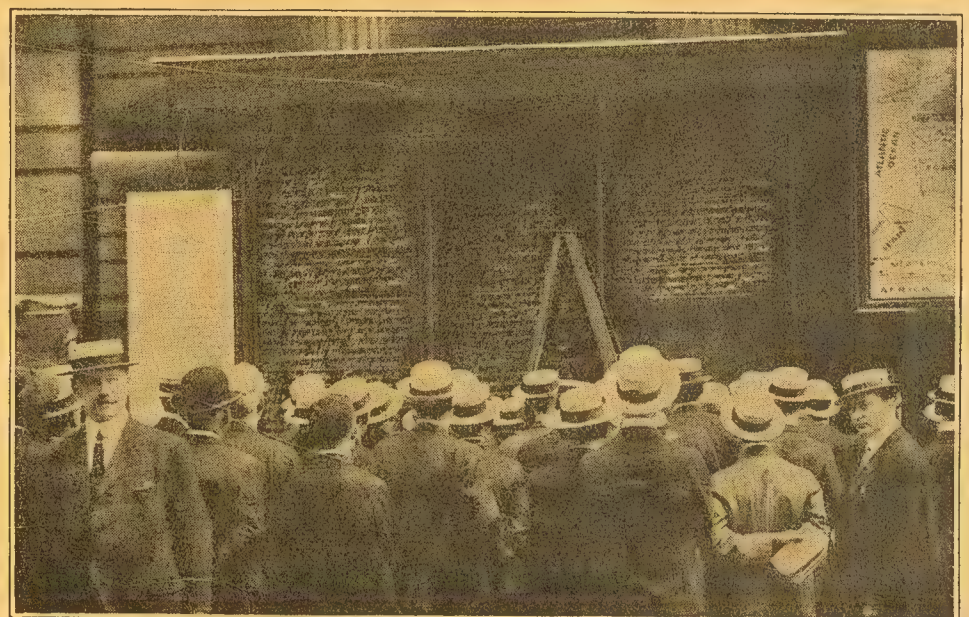
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"CONCRETE FOR PERMANENCE"

Philadelphia Headquarters, Finance Building



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THE NORTH AMERICAN BULLETIN BOARD MADE OF

COMPO BOARD

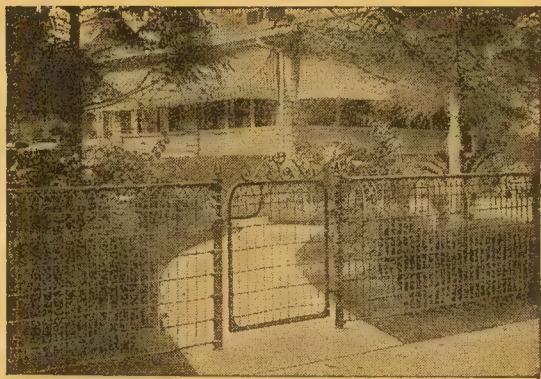
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An important part of a fence is in the ground

It's the anchorage of the posts that determines whether the fence will keep its alignment and stand straight and true after years of service.

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are built on anchor posts which are driven into the ground and then held rigidly erect by two Anchor stakes driven diagonally through slots clamped to the sides of the posts.

Iron Railings and Entrance Gates, Lawn Fences, Tennis-Court, Poultry and Kennel-Yard Enclosures, Arbors, Trellises, and Flower-Bed Guards. Catalogues of any or all are yours upon request.

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Base and Floor one continuous piece



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should be used wherever a sanitary floor is desired. Practically noiseless, it is the ideal floor for schools, public buildings, railway stations, stores, kitchens, etc.

Water, Fire and Vermin Proof

WE LAY THIS FLOOR ANYWHERE
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Water Paint

the kind you will eventually use, why not NOW. Will apply free and without obligation sample to any surface desired.

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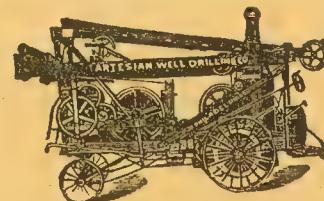
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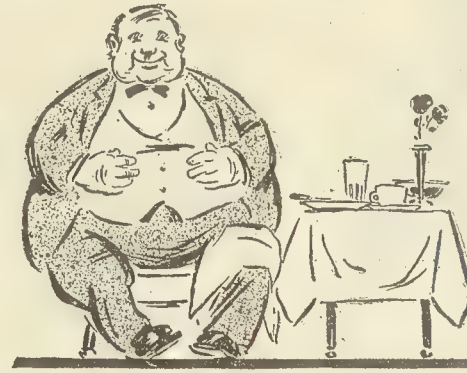
☞ Our location, only four miles from Philadelphia, enables us to guarantee delivery.

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☞ Let us talk over with you the next proposition you have in our line.

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Interior and Exterior Varnishes,
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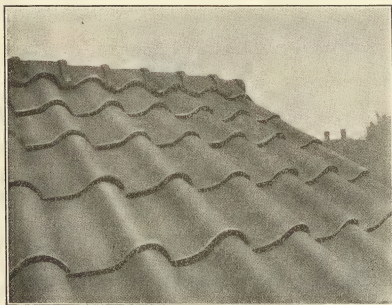


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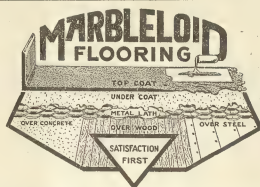
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Complete Line of Floor Tile, Roofing
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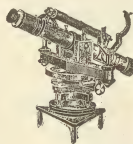
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Convertible Wye Level

A very reliable instrument for Architects and Contractors.

12-inch achromatic telescope, cross hairs, sun-shade and cap. Clamp and tangent to vertical axis, horizontal circle to degrees, by vernier to 5 minutes.

Other transits from \$15 to \$115.

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**Oriental Planes and Norway
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SPECIAL PRICES FOR CASH**

A general line of ornamental Nursery Stock

A New TREE, the Japanese **Rose
flowering Cherry** is the coming
tree, for ornament, for flowers, for
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American Metal Weather Strips

**FOR EVERY DESIGN OF
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Ask Diamond 900 on Bell, or write.

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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 12

PHILADELPHIA
March 21, 1917



As The Editor Sees It



IF one of the objects of organizing an annual exhibition made up of architectural drawings, photographs of completed work, and sketches, in color and in black-and-white, of bits of impressive detail, is to educate the layman to a becoming sense of appreciation of the beautiful why limit access to such persons as may be induced to visit a gallery?

It has occurred to me that if some arrangement could be made whereunder the drawings shown in the annual exhibition might be loaned, after its close, to the various branch and main High Schools and then to the recreation centers for a brief period, there to be made the theme of instructive little talks upon architecture, a great and lasting impression might be made upon the minds of thousands of young people who do not frequent the art galleries and who have been led to regard architecture as a something too highly technical and complicated for the average, every-day order of intelligence to grasp.

* * *

I AM confident that if it were made known that the drawings shown in the annual architectural exhibition were available for school exhibitions, by arrangement, there would be an immediate demand for them in quarters in which the soil is highly favorable to the advancement of popular taste.

Besides the schools and the recreation centers, and the various settlement-houses there are the branch libraries. Why, wouldn't it be altogether feasible to exhibit these drawings for a time in each of the branch libraries? I feel sure that there would be the keenest interest on the part of the people in sectional exhibitions of the kind. More particularly

would this be the case if in conjunction with each exhibition there could be arranged a free lecture dealing with an architectural subject. The Municipal Art Society in New York City is doing a work largely similar to that here outlined with the most flattering results. If for ethical or other reasons there should be a disposition on the part of the architects to shrink from handling the management of such a scheme, themselves, then let us organize here a Municipal Art Society to take the matter in hand.

* * *

I AM so completely assured that the idea is in every way practical and conducive to good results that I am not only ready to become a member of the Municipal Art Society, if such an organization is attempted, but will agree to take upon myself some of the work necessary to place the idea on a sound working basis. In fact, I shall be pleased to hear from architects and others interested. It seems to me that so patent an opportunity to advance public interest in one of the greatest and most enduring of the arts should not lightly be overlooked.

* * *

THE Philadelphia Chamber of Commerce will deserve the thanks of good citizens for its efforts to promote a progressive policy with regard to the Parkway and the various minor projects incident thereto. "Leading as it will from the massive City Hall directly to Fairmount Park" remarks the *Chamber of Commerce Journal*, "opportunity exists to make the Parkway at once the most notable highway in the country. Lined on either side with the Municipal Auditorium, the Art Gallery, and other structures of architectural dignity, it requires little imagination to

picture the beauty of this broad walk and driveway. In its present unfinished state, however, it is little less than an eyesore. This is all the more reason for hastening the work of construction. By all means the city should complete the Parkway without further argument or delay."

* * *

MENTION of the Municipal Auditorium reminds me that in response to popular agitation in opposition to a hall of 6,000 capacity, Mayor Smith has ordered a change in plans and design such as will enable the city to build a hall of 12,000 seating capacity for the same amount of money. If this change involves a sacrifice of architectural impressiveness, for the sake of mere capacity, it is a change, the wisdom of which will be open to question. While we agree with the trade organizations in their contention that a seating capacity of 12,000, with ample exhibition space, should be insisted upon in the new auditorium we are inclined sharply to disagree with the argument heard in this connection, that utility is the chief end to be served. If the Art Jury is anything more than an empty title for a something which does not exist it will decline absolutely to sanction the erection on the Parkway of any structure that fails to measure up to a certain fixed architectural standard.

* * *

IT should be kept in mind that the chief object of the Parkway is the beautification of Philadelphia. A city beautiful is a city of beautiful buildings. The pace in this respect will be governed largely by the example the city sets in its contributions to the dignity of the new boulevard. Beauty is inspired by beauty. Like begets like. Let

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.

125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086 KEYSTONE PHONE, MAIN 487

**BLUE
PRINTS**

the city embark upon a policy of cheap, undistinguished buildings and inside of five years the Parkway will become ar-

chitecturally a chamber of horrors. To get anywhere the prime essential is to start right.

EDITORIAL NOTES

CONTRACTS FOR DEMOLISHING 200 buildings on the line of the Parkway, west of 15th street, were awarded by Director of Public Works Datesman, on the basis of the best proposals made by contractors last week.

The city will pay \$3,688 on three sections, and receive \$785 on one. In both cases the contractor retains all building material. The work must be completed by June 15.

* * *

UNIVERSAL PORTLAND CEMENT CO. announces the succession of R. L. Slocum to the position of assistant superintendent of Mill No. 5, at Universal, Pa., made vacant by the death of R. F. Knoth.

* * *

THIS IS A GOOD TIME TO order the shrubbery for the improvement of the home grounds. Good plantings are an investment in beauty and will actually improve the selling price of a place.

* * *

ASIDE FROM THE HIGH PRICES of building materials and supplies, one of the chief difficulties in the path of the contractors and speculative builders is the problem of obtaining materials in sufficient quantities. In practically all lines of materials the existing stocks in the hands of dealers are at low ebb and with the present freight situation there is but little prospect that deliveries will be assured for some time. The freight situation is somewhat better than it has been, but until the weather moderates and the present congestion is cleared up there is no possibility of the arrival of normal conditions in this quarter.

At this writing there is no relief in sight from the existing high prices of structural commodities. There are too many elements affecting the material market at this time to make possible a recession in prices. Freight embargoes, short stocks, increased manufacturing costs, scarcity of labor and abnormal demand are all factors that contribute to the high cost, and until these can be adjusted no reduction is in sight.

* * *

THE KITTANNING SALES CO., INC., manufacturers of building brick, announce the removal of their offices on February 1st to 841 Broadway, New York City. This firm was located for

many years at 1133 Broadway. At their new address, they will have a very handsome display room and will be in better shape to handle the business of their many customers. Their new telephone numbers are Stuyvesant 237-238.

* * *

UNDER THE AUSPICES OF the Joint Committee of the Beaux Arts Institute of Design and the National Sculpture Society, the second competition for a figure to occupy one of the niches in the stair hall of the Plainfield Municipal Building is to be held. The subject of this decoration is "Civic Virtue." Models of the figure or group only at a scale of two inches to the foot are to be delivered before noon, April 6th, 1917, at 126 E. 75th street, New York City; the judgment to be at 5 P. M. on the same day. Particulars may be obtained on application to Mr. Fred B. Clarke, Secretary, at the above address.

* * *

NOTWITHSTANDING THE TENDENCY toward higher building material prices, which have affected practically all lines during the last few weeks, there seems to be a better feeling throughout the trade than for some time past. While the general conditions are not good, they are showing distinct signs of improvement, and the result will be a changed mental attitude for the builder and supply dealer. According to authentic reports from the local territory and, in fact, from the entire Eastern section of the country, active progress is apparent in the building field. Structural projects that have been held in abeyance since last autumn have come to life; new operations are developing daily and, from the amount of work on the boards in the offices of the architects, it would seem as though the building industry in these parts was about to embark on a period of intense activity.

* * *

THE PORTLAND CEMENT ASSOCIATION of 111 West Washington street, Chicago, have prepared a booklet bearing the same title, which is an enlarged re-issue of their former booklet, "Concrete in Winter." Owing to the shortage of labor which has interfered with contracting this season, it is probable that many contractors will be engaged

in concrete work during the coming cold weather. The simple suggestions and recommendations made in the pamphlet are such that they may be easily followed even by those least experienced in concrete work, and it is recommended that all contractors apply to the association for a copy of this new pamphlet.

* * *

UNDER APPROPRIATE TITLE, Technological Paper, No. 70, of the Bureau of Standards, has just been issued. This paper is prepared by R. J. Wig, Engineer Physicist, J. C. Pearson, Associate Physicist, and W. E. Emley, Associate Chemist.

This paper presents a report of progress in an investigation of stucco and plaster undertaken by the Bureau of Standards five years ago, in co-operation with the Associated Metal Lath Manufacturers. In 1915 a test building, 200 feet long, was erected, having fifty-six panels representing the common types of stucco construction, including a variety of mixtures on metal lath, wood lath, hollow tile, brick, concrete block, plaster board, gypsum block and concrete bases. Examination of the panels six months after completion showed that a number were in poor condition. About forty were rated as satisfactory, the remainder being in various stages of deterioration. It is evident that the smooth type of finish known as the sand float finish is well adapted to bringing out the small defects, such as cracks, blotches, uneven texture, etc. This paper contains suggestive information, but definite recommendations are deferred until further service test results are known.

This paper is now ready for distribution and those interested may obtain a copy by addressing a request to the Bureau of Standards, S. W. Stratton, Director, Washington, D. C.

* * *

THREE PRIZES, a first, second and third, are being offered by the Metal Club of Philadelphia for the best advertisements of tin roofing inserted in a newspaper or other periodicals, by roofers and sheet metal contractors. The prizes comprise two Elgin thin model, twenty-year, and a Geneva ten-year guarantee gold watch. The contest is open to all customers of members of the Metal Club. Full particulars concerning rules, etc., may be had by addressing George A. Fernley, secretary, 505 Arch street, Philadelphia, Pa.

* * *

NATIONAL FIRE PROTECTION ASSOCIATION will hold its annual meeting in Washington, D. C., May 8-10, 1917.

NATIONAL PIPE AND SUPPLIES ASSOCIATION will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

* * *

AMERICAN IRON, STEEL AND HEAVY HARDWARE ASSOCIATION will hold its convention at the Hotel Grunewald, New Orleans, La., March 27-29. Arthur H. Chamberlain, Marbridge Building, New York City, is the secretary.

ARCHITECTURAL NOTES.

****THE OFFICES OF D. KNICKERBACKER BOYD**, architect, have been moved to the Otis Building, 112 South Sixteenth street, Philadelphia. Associated with Mr. Boyd is Victor Darwin Abel.

* * *

****ARNOLD EBERHARD**, for the past four years connected with the office of Paul A. Davis, 3rd, has opened offices for the practice of architecture in the Crozer Building, 1420 Chestnut street, where he will be pleased to receive samples, catalogues, etc.

* * *

****HANCOCK & KOCH**, architects, have moved their offices from Coal Exchange Building to Mears Building, Scranton, Pa.

* * *

****PAYNE & ADAMS**, architects and engineers, have moved their offices from 81 State street to the Barrows Building, 253 State street, New London, Conn., and would be pleased to receive manufacturers' samples and catalogues.

* * *

****LANSING, BLEY & LYMAN**, architects, are moving to new offices in the Delaware Court Building, 250 Delaware avenue, Buffalo, N. Y.

* * *

****PHILIP L. GOODWIN**, Roger H. Bullard and Heathcote M. Woolsey have formed a partnership for the practice of architecture and have opened offices at 4 East Thirty-ninth street, Manhattan, under the firm name of Goodwin, Bullard & Woolsey.

* * *

****THE PARTNERSHIP OF McLAUGHLIN & JOHNSON**, architects, has been dissolved as of January 1st, 1917. Mr. Johnson retiring from the firm. Mr. McLaughlin will continue the business located in the People's Bank Building, Lynchburg, Va., and has so arranged his organization that all work will be skillfully planned and have the closest personal supervision as heretofore.

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

ESTIMATED WEIGHT OF LUMBER AND OTHER ARTICLES.

Note.—From 18,000 to 20,000 pounds is considered a car load in most places, each car itself also weighing about 20,000 pounds.

Light Lumber.

Pine, hemlock and poplar, thoroughly seasoned, per thousand feet, 3,000 pounds. Amount for car load, 6,500 feet.

Black walnut, ash, maple and cherry, per thousand feet, 4,000 pounds. Amount for car load, 5,000 feet.

Medium lumber.

Pine, hemlock and poplar, green, per thousand feet, 4,000 pounds. Amount for car load, 5,000 feet.

Black walnut, maple, ash and cherry, green, per thousand feet, 4,500 pounds. Amount for car load, 4,000 feet.

Oak, hickory and elm, dry, per thousand feet, 4,000 pounds. Amount for car load 5,000 feet.

Heavy Lumber.

Oak, hickory and elm, green, per thousand feet, 5,000 pounds. Amount for car load, 4,000 feet.

Oak, hickory and elm, part seasoned, per thousand feet, 4,500 pounds. Amount for car load, 4,500 feet.

Shingles, green, per thousand, 375 pounds. Amount for car load 55 thousand.

Shingles, dry, per thousand, 275 pounds. Amount for car load, 70 thousand.

Lath, per thousand, 500 pounds. Amount for car load, 40 thousand.

Brick, common, per carload, 4 pounds each, 5,000.

Fire brick, per car load, 6 pounds each, 3,000. Sand, per cubic yard, 3,000 pounds. Amount for car load, 6½ cubic yards.

Gravel, per cubic yard, 3,200 pounds. Amount for car load, 6 cubic yards.

Stone, undressed, per cubic yard, 4,000 pounds. Amount for car load, 5 cubic yards.

Stone, per car load, 20,000 pounds.

QUANTITY OF OIL REQUIRED FOR DIFFERENT COLORS.

Color manufacturers quote the following figures:

	Parts of Oil.
100 parts (weight) White Lead require....	12
100 parts (weight) Zinc White require....	14
100 parts (weight) Chrome Yellow require....	19
100 parts (weight) Vermilion require....	25
100 parts (weight) Light Red require....	31
100 parts (weight) Madder Lake require....	62
100 parts (weight) Yellow Ochre require....	66
100 parts (weight) Light Ochre require....	72
100 parts (weight) Camels Brown require..	75
100 parts (wtg) Brown Manganese require..	87
100 parts (weight) Terre Verte require....	100
100 parts (weight) Parisian Blue require....	106
100 parts (wtg) Burnt Terreverte require..	112
100 parts (weight) Berlin Blue require....	112
100 parts (weight) Ivory Black require....	112
100 parts (weight) Cobalt require....	125
100 parts (wtg) Florentine Brown require..	150

100 parts (wtg) Burnt Terra Sienna require.181

100 parts (wtg) Raw Terra Sienna require.140

According to this table, a hundred parts of the quick drying white lead are ground with 12 parts of oil, and on the other hand slow drying ivory black requires 112 parts of oil.

RELATIVE HARDNESS OF WOODS.

Taking shell bark hickory as the highest standard of our forest trees, and calling that 100, other trees will compare with it for hardness as follows:

Shell Bark Hickory	100
Pignut Hickory	96
White Oak	84
White Ash	77
Dogwood	75
Scrub Oak	73
White Hazel	72
Apple Tree	70
Red Oak	69
White Beech	65
Black Walnut	65
Black Birch	62
Yellow Oak	60
Hard Maple	56
White Elm	58
Red Cedar	56
Wild Cherry	55
Yellow Pine	54
Chestnut	52
Yellow Poplar	51
Butternut	43
White Birch	43
White Pine	30

Timber intended for posts is rendered almost proof against rot by thorough seasoning, charring and immersion in hot coal tar.

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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STONE AND BRICK WORK.

Stone walls are measured and estimated by the perch, which is equal to 24½ cubic feet. Cut stone, ordered to certain sizes, for arches or fronts of buildings, is sold by the cubic foot. In estimating the stone in a wall, no deductions are made for the openings, such as doors and windows, less than one perch, and the perch is then usually reckoned at 25 cubic feet. The labor of plumbing and squaring openings for doors and windows is equivalent to laying the solid wall, hence no deductions are made for the labor on account of openings, and, in fact, where there are many windows, something is added.

Bricklayers' work is estimated by the thousand brick laid in the wall. A certain number of bricks are allowed to the superficial foot. The usual size of a brick is 8 inches long, 4½ inches wide, and 2½ inches thick, but in different localities and by different manufacturers the size varies a little. The mortar used in the wall is about one-eighth additional to the bricks.

Scale.

Bricks.

4½-in. wall (¾ brick) per superficial ft. 7
9-in. wall (1 brick) per superficial ft. 14
13-in. wall (1½ bricks) per superficial ft. 21
18-in. wall (2 bricks) per superficial ft. 28
22-in. wall (2½ bricks) per superficial ft. 35
and seven bricks additional for each half brick added to the thickness of the wall.

To find the number of bricks in a wall, multiply the length in feet by the height in feet, deduct for the openings, and multiply by the number of bricks in the above scale, corresponding to the thickness of the wall.

A load of mortar measures 1 cubic yard, or 27 cubic feet, and requires one cubic yard of sand, and 9 bushels of lime, and will fill 30 hods. A bricklayer's hod is 1 foot 4 inches x 9 inches x 9 inches, and will carry 20 bricks, or ¾ cubic foot of mortar, or nearly ½ bushel. Bricks absorb 1-15 of their weight in water.

Classes of work in masonry are three, which consist of rubble work, wherein the stones are not squared; coursed work, in which the stones are set in courses; and ashlar, in which each stone is squared and dressed.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

An advertisement should stick out like a sore thumb without being so sensitive.—"Novelty News."

POINTERS ON PLASTERING.

Plasterers' Work.

The square yard is the unit of measurement for plastering plain work, such as walls and ceilings. Mouldings, cornices, center pieces and panels are charged for by the square foot or by the linear foot. No deductions are made for openings less than about 5 square yards, and sides of chimneys and strips of plastering less than 12 inches are measured as 12 inches wide. Where the plastering is finished down upon the wainscoting or base boards, add six inches to the height of the wall. In closets add one-half to the measurement. Circular work, mouldings, etc., are usually charged for according to the time and skill required, and really bear no proportion to the cost of ordinary plastering.

To Find the Number of Yards of Plastering in a Room.

Find the surface of each wall separately by multiplying its length by its breadth in feet, add together these various surfaces, and divide by 9 to find the number of yards of plastering, and this multiplied by the cost per yard of plastering will give the cost of plastering the room.

One thousand lath will cover 70 yards of surface, and 11 pounds of lath nails will nail them on. 8 bushels of good lime, 16 bushels of sand, and one bushel of hair will make enough good mortar to plaster 100 square yards of wall two coats. 100 lath make a bundle, and on the wall they should be set ¼ inch apart.

Painters' and Calciminers' Work.

Painters' work is estimated by the square, which is 100 square feet, or a surface 10 feet long and 10 feet wide. No deductions are made for windows, and something is added for difficult cornices, balusters, etc.

Multiply the length of each surface painted by its width and point off two places from the right, this will give the number of squares, which multiplied by the price will give the cost of painting for one, two, or three coats, as the case may be.

SOME GOOD ADVICE.

You want some good advice. Rise early. Be abstemious. Be frugal. Attend to your own business and never trust it to another. Be not afraid to work, and diligently, too, with your own hands. Treat every one with civility and respect. Good manners insure success. Accomplish what you undertake. Divide, then persevere. Diligence and industry overcome all difficulties. Never be mean—rather give than take the odd shilling. Never postpone till to-morrow what can be done to-day. Never anticipate wealth from any source but labor. Honesty is not only the best policy, but the only policy. Commence at the first round and keep climbing. Make your word as good as your bond. Seek knowledge to plan, enterprise to execute, honesty to govern all. Never overtrade. Never give too large credit. Time is money. Reckon

the hours of the day as so many dollars, the minutes as so many cents. Make few promises. Keep your secrets. Live within your income. Sobriety above all things. Luck is a word that does not apply to a successful man. Not too much caution—slow but sure is the thing. The highest monuments are built piece by piece. Step by step we mount the pyramids. Be bold—be resolute when the clouds gather, difficulties are surmounted by opposition. Self-confidence, self-reliance is your capital. Your conscience the best monitor. Never be over-sanguine, but do not underrate your own abilities. Don't be discouraged. Ninety-nine may say no, the hundredth, yes; take off your coat, roll up your sleeves; don't be afraid of manual labor! America is large enough for all—strike out for the West. The best letter of introduction is your own energy. Lean on yourself when you walk. Keep good company. Keep out of politics unless you are sure to win—you are never sure to win, so look out.

KEEP YOUR CREDIT GOOD.

Remember that it not only pays to advertise but that it also advertises to pay.

THE TRIAL BALANCE.

Stenographer: "Why is it called a trial balance?"

Bookkeeper: "Because when it doesn't it is."

THE MODERN BUILDER.

Inventive geniuses abound
Where'er necessity is found;
The builder who is up to snuff
Knows very well it's not enough
To build his houses on a plan
Devised before B. C. began;
For nowadays each season brings
New ways and means of doing things.
The modern builder, shrewd and wise
Consults the firms who advertise.

To make the illustration clear
Look up the record of each year,
Observe how industry has sped
With sure and steady growth ahead;
Compare the modern house with those
You knew when in your swaddling clothes.
To-day from basement to the roof
Each wall and ceiling shows the proof,
For each room is a perfect part
Of comfort counterpoised with art.

The parlor door throw open wide
And see the paneled walls inside,
Where shaded tints and tones agree
In perfect blended harmony.
In every room, with tasteful tone,
The skillful artisan has shown
How little labor forms a part
When wall board supplements his art,
And in the modern home no bare
Unfinished room is anywhere.

—Frank Adams Mitchell, in "National Builder."

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory Building and Power House, Memphis and Tioga streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Treen Box Co., on premises. Brick (slow burning), factory, 2 stories and basement, 60x100 feet; power house, 1 story, 30x60 feet, slag roof, steam heating, electric lighting, metal lath, cement and plank floors. Plans in progress.

Department Store, 2204-12 North Broad st., Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, James B. Gilles, 2200 North Broad street, Philadelphia. Brick, steel and terra cotta, 2 stories and basement, 68x90 feet, slag floor, steam heating, electric lighting, metal lath, fire doors, pine floors, tile and marble work. Plans in progress.

Maternity and Dispensary Building, 1234 North Fifty-fourth street, Philadelphia. Owners, West Phila. General Homoeopathic Hospital, on premises. Brick and concrete, terra cotta trimmings, 2 stories and basement, 36x80 feet, slag roof, cement floors, metal lath, tile and marble work (steam heating and electric work reserved). Plans in progress.

Residence, Rising Sun avenue, Chestnut Hill, Pa. Architect, E. M. Van Voorhees, Hale Building, Philadelphia. Owner, L. M. Martin, care of architect. Frame, 2 stories, 37x21 feet, shingle roof, pine floors, hot water heating, electric lighting. Plans in progress.

Studio (alt. and add.), 1320 Walnut street, Philadelphia. Architects, Mellor, Meigs & Howe, 205 S. Juniper street, Philadelphia. Owners, Rosenbach Co., 1320 Walnut street, Philadelphia. Brick, 3 stories, 21x48 feet, tin roof, pine and oak floors, metal lath and sash, tile and marble work (electric lighting and heating reserved). Architects taking bids, due March 23d. R. C. Ballinger & Co., 213 North Thirteenth street; Freund Const. Co., Bulletin Building; H. H. Burrell, 208 South Quince street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Residences (25), Marine street, between Wingohocking and Courtland streets. Architect, private plans. Owners, John F. McGinty & Co., Twelfth and Courtland streets. Brick, 2 stories, 16x46 feet, slag roof, hot water heating, electric lighting, metal lath, hardwood floors, tile work. Owner will be ready for sub-bids in a week.

Motion Picture Theatre (alt.), Seventh and Snyder avenue, Philadelphia. Architect, Frank V. Greenstein, 715 Empire Building, Philadelphia. Owners, Grand Theatre Amusement Co., on premises. Brick, steel and terra cotta, 1 story, 75x135 feet, slag roof, cement floors, electric lighting, metal lath, tile and marble work, terrazzo work (lighting fixtures, pipe organ and interior decorating reserved). Architect taking bids, due March 22d. The following is the revised list of bidders: Ketcham & McQuade, 1029 Brown street;

Freund Const. Co., Bulletin Building; Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1605 Cherry street; G. J. Reich, Boulevard and Broad street; Wills, Ludwick Co., 34 South Seventeenth street, Philadelphia.

Turntable and Crane, Tulip and Emerald streets, Philadelphia. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading Railway Co., Reading Terminal, Philadelphia. Reinforced concrete and steel, consists of 100 ft. turntable and a traveling crane. Owners ready for bids, due March 26th at noon.

Church, Twenty-seventh and Indiana avenue, Philadelphia. Architects, Stackhouse & Street, 129 South Fifth street, Philadelphia. Owners, Diamond Street Baptist Church, Rev. Geo. E. Rees, 2327 Venango street, Philadelphia. Stone and plaster, 1 story and basement, 50x85 feet, slate roof, pine floors, electric lighting. Architects taking bids, due March 24th at noon. E. C. Durrell, 1713 N. Twenty-fourth street; E. E. Hollenback, Inc., 1804 Brandywine street; F. B. Davis, 240 N. Sixteenth street; T. C. Trafford, 1613 Sansom street; A. R. Raff Const. Co., 1635 Thompson street; F. W. Mark Const. Co., Finance Building, and Harry E. Sweger, 4435 N. Uber street, Philadelphia, are figuring.

Manufacturing Building and Garage, 325-29 Market street, Philadelphia. Architects, Peacock & Wunder, 310 Chestnut street, Philadelphia. Owner, name withheld. Brick and concrete, 2 or 1 stories, 51x64 feet and 18x65 feet; garage, 1 story, 30x30 feet, slag roof, maple or pine and cement floors, metal window guards (heating and electric work reserved). Architects have received bids.

Sanitarium (alt.), Germantown avenue and City line, \$15,000. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Bella Vista Sanitarium, Dr. H. L. Randall, on premises. Brick, 2 stories and basement, slate roof, steam heating, electric lighting. Architect taking revised bids, due March 23d. The following are figuring: Wm. C. Wright, 22 Harvey street; Henry P. Schneider, 3713 Old York road; Eugene Tourison, 1001 Chestnut street; Geo. S. Roth & Sons, 230 E. Gravers lane; Alex. Chambley, 243 South Tenth street; Nickson-Duggan Const. Corp., 1213 Chestnut street; Pringle Borthwick, 3018 Germantown avenue, and John E. Walt, 204 E. Willow Grove avenue; Wark-Yardley Co., 1737 Filbert street, Philadelphia.

Store and Dwelling (alt. and add.), 1412 Point Breeze avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, H. Vederman, on premises. Consists of general interior and exterior alterations, hot water heating, electric lighting, tile work, cement work, plate glass, slag roof, metal

ceiling. Owner will take bids in about one week.

Factory, (northeastern section), Philadelphia. Architect, Frederick T. Uezzell, 147 N. Third street, Philadelphia. Owner, name withheld. Brick (slow burning), 3 stories, 50x130 feet, slag roof (steam heating, electric lighting and plumbing reserved), (1) freight elevator, rolled steel sash, rolling steel doors, ventilators, metal skylights. Plans in progress. Architect will be ready for bids about April 1st.

Stores (3) and Garage Building (northeastern section), Philadelphia. Architect, Frederick T. Uezzell, 147 North Third street, Philadelphia. Owner, name withheld. Brick and stone, 2 stories, 110x65 feet, slag roof (steam heating, electric lighting and plumbing, reserved), metal skylights, ventilators, metal store fronts, rolling steel doors, gasoline storage system, air pump. Plans not completed. Architect will be ready for bids in a few days.

Machine and Electrical Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Washington, D. C. Reinforced concrete, hollow tile and steel, 4 stories, 130x325 feet, slag roof, pine floors, rolled steel sash, fire doors (plumbing, heating, electric work separate bids), rolling steel shutters. Owners taking bids, due April 24th at 11 A. M. Irwin & Leighton, 126 N. Twelfth street, Philadelphia, are figuring.

Residences (6), Rising Sun avenue and Bleigh street, Fox Chase, Philadelphia. Architect, Wm. F. Koelle & Co., Twenty-sixth and Thompson streets. Owners, Wm. F. Koelle & Co., Twenty-sixth and Thompson streets. Brick, 2 stories, 16x41 feet, slag roof, hot water heating, electric lighting, tile work, pine floors. Owners taking sub-bids.

Passenger Station (alt. and add.), Cheltenham, Philadelphia, \$35,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Consists of new concrete platforms, steel and timber shelter sheds, slate roofs, stairways and elevator, metal lath. Owners taking bids, due March 27th. Brann & Stuart, Commercial Trust Building; Irwin & Leighton, 126 N. Twelfth street; Bailey-Lash Co., 201 N. Broad street; Abel Bottoms & Sons, 3611 Walnut street; Wark-Yardley Co., 1737 Filbert street; F. A. Havens & Co., 845 North Nineteenth street; Mutual Eng. Co., Franklin Building; Roydhouse-Arey Co., 112 North Broad street; Wm. W. Anstine & Co., 1218 Filbert street; H. H. Wehmeyer, 1004 Lehigh avenue; A. L. Carhart, Hale Building, are figuring.

Residence and Garage, Lincoln Drive and Hortter street. Architects, Chas. Barton Keen, Bailey Building, Philadelphia. Owner, D. C. MacNeill, 5225 Wissahickon avenue.

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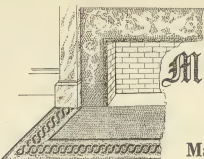
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Stone, hollow tile and plaster, 2½ stories, 58x27 feet and 20x26 feet, tile roof (plumbing, heating and electric work, tile work reserved), hardwood and composition floors, vapor heating, electric lighting, hollow tile. Architect taking bids, due March 26th. Samuel Harting, 20 E. Johnson street; Wm. J. Gruhler & Co., 219 E. High street; Kohl-Mergence Co., 124 E. Gorgas Lane; George L. Croll, Bryn Mawr, Pa., and A. R. Raff Const. Co., 1635 Thompson street; Thos. M. Seeds, Jr., Co., 1207 Race street, are figuring.

Residences (remodeling for club house), 118-20 North Eighteenth street. Architect, not selected. Owners, Amer. Federation of Musicians, Local No. 77, Chas. A. Carbon, chairman building committee, 248 North Sixth st., Philadelphia. Brick, 3 stories. Work contemplated for near future.

Stores (3) and Apartments (2), southwest corner Twenty-second and Chestnut street. Architects, Sheen & Gill, Heed Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 18x46 feet, slag roof. Plans in progress.

Hospital, Tulip and Allegheny avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owner, Northeastern Hospital of Philadelphia, 2349 E. Allegheny avenue. Brick and concrete, stone trimmings, 2 stories, 101x41 feet and 1 story, 31x31 feet, slag roof, terrazzo, cement and pine floors, metal lath, rolled steel sash, hollow tile, metal skylights, fire doors, tin clad and kalamein doors, tile and marble work (heating, electric work and elevator (1) reserved). Architect taking bids, due March 22d. A. R. Raff Const. Co., 1635 Thompson street; Ketcham & McQuade, 1029 Brown st.; Irwin & Leighton, 126 North Twelfth street; Barclay White & Co., 1713 Sansom street; P. Haibach Const. Co., Twenty-sixth and Thompson streets; John N. Gill & Co., Otis Building; H. E. Baton, Twelfth and Sansom streets; Pomeroy Const. Co., 1609 Ranstead street; Alex. Chambley, 243 South Tenth st.; F. B. Davis, 250 North Sixteenth street; Wm. R. Brown, 2145 E. Fifth street; Robert Beatty & Bro., 2311 E. Fletcher street; Jos. McNutt, 1929 E. Allegheny avenue, and Harry Drake, 3139 Frankford avenue, are figuring.

Chapel, Tenth and Northeast Boulevard, Philadelphia. Architects, Ralph B. Bencker and Price & McLanahan, Bellevue Court Building. Owners, First Christian Church, Rev. I. S. Chenoweth, 1418 Euclid street. Stone, brick and concrete, 2 stories and balcony and basement, 72x32 feet, tin, slate and slag roof, steam heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, maple floors. Architects taking revised bids, due March 22d. E. E. Hollenback, Inc., 1804 Brandywine

street; H. E. Grau Co., 1709 Sansom street; Pringle Borthwick, 3018 Germantown avenue, and Wm. J. Gruhler, 219 E. High street, are figuring.

Subway Stations, various locations. Contracts Nos. 103, 104, 204. Architect, private plans. Owners, City of Philadelphia, Dept. of City Transit, care of Wm. S. Twining, director, Bourse Building. Excavating, heavy construction, underpinning, reinforced concrete, waterproofing, dampproofing, skylights, safety treads, iron stairs. Owners taking bids, due April 3, 1917. Keystone State Const. Co., Pennsylvania Building, Philadelphia, is figuring.

Sewers, etc., Philadelphia, Pa. Architect, private plans. Owners, City of Philadelphia, Dept. of Public Works, Geo. E. Datsman, director, room 416, City Hall, Philadelphia. Consists of branch sewers, inlets, manholes, etc. Owners ready for bids, due March 30th at noon.

Residence, City Line and Church road, Overbrook, Pa. Architects, Savery & Scheetz, St. Girard Building, Philadelphia. Owner, Jos. Giffilan, West End Trust Building. Stone, 2½ stories, slate roof, electric lighting, hardwood floors, tile work. Revised plans in progress. Architect ready for bids in two weeks.

Police Station and Patrol House (alt.), 615 East Girard avenue. Architect, Louis E. Marie, 325 City Hall. Owners, Bureau of Police, Dept. of Public Safety, Wm. H. Wilson, room 215, City Hall, Philadelphia. Millwork, painting, slate and tin roof, pine floors (plumbing, heating and electric work separate bids). Low bidders, H. H. Wehmeyer, 1004 Lehigh avenue, \$5,593; F. A. Havens, 845 N. Nineteenth street, \$5,600.

Fire Station (alt.), 752 South Sixteenth st., Philadelphia. Architect, Louis E. Marie, 325 City Hall, Philadelphia. Owners, Bureau of Fire, Dept. of Public Safety, Wm. H. Wilson, director, room 215, City Hall, Philadelphia. Consists of new reinforced concrete floors, plumbing, millwork, electric lighting. Lowest bidders, E. C. Durell, 1713 N. Twenty-fourth street, \$2,695; John H. Jordan, Thirty-first and Oxford streets, \$2,975.

Factory, 1021-25 South Ninth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Luigi Verna, on premises. Brick and steel, 3 stories and basement, 32x57 feet, and 40x48 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing, fire doors, maple floors, metal skylights. Owner has received bids.

Hotel (alt. and add.), 4244 Ridge avenue, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street. Owners, Fairmount Inn, on premises. Brick (additions to garage and kitchen), general interior alterations, bar work, slag roof. Architects have received bids.

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Garage, Germantown, Philadelphia. Architects, Duhring, Okie & Ziegler, Bailey Building, Philadelphia. Owner, Wm. R. Eisenhower, Upsal street, west of Wayne avenue, Germantown. Stone, 2 stories, 28x25 feet, single roof, hot water heating, electric lighting, cement and pine floors, metal lath, waterproofing, wire work. Architects have received bids.

Store and Dwelling (alt.) and Garage, 2551 Kensington avenue. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Wm. J. Geggis, on premises. Brick, 3 stories; garage, 1 story, 20x22 feet, slag roof, hot water heating, electric lighting, pine and cement floors. Plans completed. Architects ready for bids.

Residence (alt.), 2001 DeLancey street, Philadelphia. Architect, Mautle Fielding, 520 Walnut street, Philadelphia. Owners, Phila. Trust Co., 413 Chestnut street, Philadelphia. Brick, marble trimmings, 3 stories, consists of general interior alterations and new front. Architect has received bids.

Residence (remodeling to apartment house), 4901 Walton avenue. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Frank P. Dickinson, on premises. Brick, 3 stories, hot water heating, electric lighting, slag and tin roof, hardwood floors, metal lath. Architects have received bids.

Residence (alt. and add.), Prospect avenue and New Street, Chestnut Hill. Architects, Bissell & Sinkler, Otis Building. Owner, Dr. Wm. H. Jefferys, 100 West Walnut lane, Germantown. Brick and plaster, 2½ stories addition, 2 stories, 40x35 feet, tin roof, plumbing, metal lath, tile work, pine and cement floors (hot air heating and electric work reserved). Revised plans in progress. Will be ready for bids in about one week.

Garage and Repair Shop, Tenth and Cheltenham avenue, Philadelphia. Architect, private plans. Owners, The Texas Co., Morris Building, Philadelphia. Brick, reinforced concrete and steel, 2 stories, 45x130 feet, slag roof, steam heating, electric lighting, concrete floors, rolled steel sash, fire doors, metal lockers, tile work, rolling steel shutters (elevators and gasoline storage system reserved). Revised plans in progress. Owners will take bids in about two weeks.

Theatre, southwest corner of Nineteenth and Market streets, Philadelphia, \$500,000. Architects, The Hoffman Co., Finance Building, Philadelphia. Owners, Stanley Realty Co., Juniper and Market streets. Brick, stone, steel and terra cotta, 1 story and balcony, 142x170 feet, slag roof, electric lighting, metal lath, fire doors, tile and marble work, cement floors. Architects taking bids, due April 5th. John R. Wiggins & Co., Otis Building; Cramp & Co., Denekla Building; Fuller & Co., Widener Building; Ketchum & McQuade, 1029 Brown street; Fleischmann Const. Co., 7 West Forty-fifth street; Thompson-Starrett Co., 49 Wall street, and James Stewart & Co., Inc., 30

Church street, all of New York City, are figuring.

Shop and Office Building, Twenty-ninth and Clearfield streets, \$35,000. Architect, private plans. Owners, S. G. Matthews & Co., 916 North Ninth street, Philadelphia. Brick and steel, 1 story, 40x155 feet and 2 stories, 40x70 feet, slag roof, vapor vacuum heating, electric lighting, motors, dynamos, cranes, crane runways, cement floors. Plans in progress. Owners will take sub-bids in one month.

Ice House (add.), Seventeenth and Juniata streets, Philadelphia. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and concrete, 2 stories, 16x48 feet, slag roof, cement, wood and slate floors. Owners taking bids, due March 24th. Irwin & Leighton, 126 North Twelfth street; Monaghan & Losse, Inc., 3016 Chestnut street, and Wm. Linker Co., 831 Cherry street, are figuring.

Residences, Forty-fifth street, north of Baltimore avenue. Architect, private plans. Owner, John N. McGarvey, Sixty-first and Oxford streets, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owner is sub-letting.

Store and Dwelling (alt.), corner of Mt. Airy and Germantown avenues. Architect, private plans. Owner, Dr. Frank J. Rinker, 7201 Germantown avenue. Brick, 3 stories, consists of new front and interior alterations, plumbing, electric lighting, tile work, composition floors, plastering. Eugene Tourison, 1001 Chestnut street, taking sub-bids, due March 20th.

Garage, 5315-17-19 Chancellor street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Millard F. Kennedy, Fifty-third and Walnut streets, Philadelphia. Brick, 1 story, 28x30 feet, slag roof, cement floors, hot water heating, electric lighting, wire work. Architect taking bids, due March 21st. R. C. Ballinger & Co., 218 North Thirteenth street; Abel Bottoms & Sons Co., Inc., 3611 Walnut street, and A. R. Raff Const. Co., 1620 Thompson street, are figuring.

Residence (alt.), 2019 Delancey street, \$40,000. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street. Owner's name withheld. Limestone and brick, 5 stories and basement, 22x150 feet, slag, tin and copper roof, hardwood floors, vapor heating, electric lighting, tile and marble work, waterproofing,

ornamental iron work, skylights, cement work. Architects taking sub-bids.

Club House, Ludlow street, between Eighteenth and Nineteenth streets, \$30,000. Architect, private plans. Owners, Plays and Players' Club, 43 South Eighteenth street, Philadelphia, Frederick H. Shelton, chairman Building Committee; H. B. Schaeffer, Jr., Secretary, 43 South Eighteenth street, Philadelphia. Consists of changing present properties into club house. Plans in progress. Owners will take bids in a few months.

Warehouse, 12 South Sixth street, Philadelphia. Architects, E. F. Durang & Son, 1220 Locust street, Philadelphia. Owners, Megargee-Hare Paper Co., on premises. Brick, 6 stories, 40x72 feet, slag roof (heating, plumbing and lighting reserved), cement floors, hollow tile, rolled steel sash and skylights, fire and kalsolmin doors, fire escapes, ornamental iron work (elevator reserved). Architects taking bids, due March 24th. H. E. Batton, Twelfth and Sansom streets; F. G. Stewart, 1619 Sansom street; John McShain, 1610 North street; Jacob Myers & Sons Co., Witherspoon Building; Wm. R. Dougherty, 1610 Sansom street; Cramp & Co., Denekla Building; Barclay White & Co., 1713 Sansom street; George A. Fuller & Co., Widener Building, and Moody Eng. Co., 115 Broadway, New York City, are figuring.

Sunday School, Eighth and Luzerne streets, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owners, St. Simeon's English Lutheran Church, care of Rev. Karl L. Reinsner, 4064 North Twelfth street, Philadelphia. Stone, 2 stories, 65x32 feet, slate roof. Plans in progress.

Dye House (add. and repairs), Trenton avenue and Willard street. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, General Processing Co., Trenton avenue and Willard street. Brick (mill construction), 2 stories. Plans in progress.

Store and Apartments, northeast corner of Sixteenth and Columbia avenue. Architect, F. E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Max Roetenberg, 1419 Ridge avenue, Philadelphia. Brick, 3 and 2 stories (add.), 17x27 feet, tin, slate and tile roof, oak and pine floors (heating, electric work and decorating reserved). Architect taking additional bid from Lam Building Co., 1001 Wood street, due March 21st.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (alts.), Sixth and Columbia avenue, Philadelphia. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners,

Henry H. Sheip Mfg. Co., on premises. Consists of alterations to fire tower, concrete and steel, new airways, brick, steel and con-

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crete, fire doors. Contract awarded to Barclay White & Co., 1713 Sansom street.

Garage, 345-47 North Orianna street, Philadelphia, \$10,000. Architect, private plans. Owner, E. S. Armstrong, 130 S. Twelfth st., Philadelphia. Brick, 1 story, 92x117 feet, slag roof, steam heating, electric lighting, cement floors, otis elevator, roof ventilators. Contract awarded to Conneen Const. Co., 1737 Filbert street, Philadelphia.

Elevator Shaft, 515 Market street, Philadelphia, \$2,500. Architect, private plans. Owner, Edward Whitehill, on premises. Expanded metal and plaster, 5 stories, 7½x7½ feet, tin roof, electric lighting, kalemmain doors, (1) elevator. Contract awarded to Conneen Const. Co., 1737 Filbert street, Philadelphia.

Shop (fire repairs), 1421 Brown street, Philadelphia, \$4,000. Architect, private plans. Owner, Frank Shaw, 1421 Brown street, Philadelphia. Brick, 2 stories, 15x56 feet, slag roof (heating reserved), cement and pine floors, electric lighting, wire work. Contract awarded to Edw. Fay & Son, 2 South Mole street, Philadelphia.

Garage, southeast corner Sixtieth and Baltimore avenue, Philadelphia. Architect, private plans. Owner, Glenn O. Martin, 1006 South Sixtieth street, Philadelphia. Brick, 1 story, 54x275 feet, slag roof, steam heating, cement



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floors, electric lighting, gasoline storage system. Contract awarded to J. Presper Eckert, 121 West Durham street, Chestnut Hill.

Factory (add.), Erie avenue and D street, Philadelphia, \$30,000. Architect, private plans. Owner's name withheld. Brick (slow burning), 1 story, 60x200 feet, slag roof, cement floors (heating and lighting reserved), rolled steel sash, metal lath, roof ventilators. Contract awarded to Pomeroy Const. Co., 1609 Renstead street.

Factory, Ruscomb street and Stenton avenue, Wayne Junction, \$75,000. Architect, private plans. Owners, Atwater Kent Manufacturing Works, 4937 Stenton avenue, Phila-

delphia. Brick (slow burning), 1 story and basement, 146x217 feet, asphalt roof, cement floors, metal lath, rolled steel sash, fire doors (elevator, plumbing, heating, electric work and sprinkler reserved). Contract awarded to Wark-Yardley Co., 1737 Filbert street, Philadelphia.

Residence and Garage, Queen Lane Manor, Philadelphia. Owner, L. Harry Richards, Jr., Real Estate Trust Building, Philadelphia. Brick and plaster, 2½ stories, 27x47 feet; garage, 1 story, 10x14 feet, slate roof, hot water heating, electric lighting, hardwood boars, cement work. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

PENNSYLVANIA

Construction News

School House and Auditorium (alt. and add.), Fort Washington, Pa. Architects Schmerhoun & Phillips, 430 Walnut street. Owners, School District of Upper Dublin Township, Montgomery Co., Pa., Wm. E. Aichele, chairman, building committee. Stone and brick, 2 and 1 story, 88x55 feet, slag and slate roof, maple, cement and pine floors, metal lath, ventilators, metal ceilings, metal weatherstrips (heating, ventilating, plumbing and electric work reserved). Architects have received bids.

Residence, East Downingtown, Pa. Architect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, Francis D. Godley, Haverford, Pa. Frame or hollow tile and stucco, 2½ stories, 25x43 feet and 11x18 feet, shingle roof, pine floors (hot air heating, electric work reserved). Plans completed. Architect will take bids in a few days.

Residences (50), Chester Pike, Upper Darby, Pa. Architect, private plans. Owner, Benj. L. Carroll, Sixty-third and Arch streets, Philadelphia. Stone and stucco, 3 stories, 27x35 feet, slate roof, hot water heating, combination lighting, metal lath, hardwood floors, tile work. Will start work in a few days. Owner is subletting.

Residences (2), Parkside, Del. Co., Pa., \$1,000. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Samuel A.

Hewes & Son, 613 Welsh road, Chester, Pa. Frame and stucco, 2 stories, 32x25 feet, slate roof, hot air heating, combination lighting, oak floors. Owners taking sub-bids.

Turntable, Rutherford, Pa. Engineer, Sam. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. (Lebanon Valley Branch), Reading Terminal. Concrete and steel, 100 feet. Owners taking bids, due March 21st. A. L. Carhart, Hale Building, and Seeds & Derham, 6314 Wissahickon avenue, are figuring.

Theatre Building, South George street and Philadelphia street, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Jackson Theatre Co., York, Pa. Brick, stone and stucco, 1 story and balcony, 100x60 feet, slag roof, steam heating, electric lighting, metal lath, fire doors, tile work, yellow pine floors, terrazzo work. Architect taking bids, due as soon as possible. G. W. Gilbert, S. Gladfelder, J. L. Menough & Son, Hess Bros., Calvin Boyer & Sons, all of York, are figuring.

Residence, Red Lion, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, H. M. Haines, Red Lion, Pa. Brick and stucco, 2½ stories, 30x40 feet, slate roof, steam heating, electric lighting, hardwood floors. Plans in progress.

School and Hall, Dallastown, Pa. Architect, Ed. Leber, Hay Building, York, Pa. Owners,

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St. Joseph's R. C. Church, Dallastown, Pa. Brick, terra cotta, granite, 2 stories, 32x48 feet, slate roof, steam heating, electric lighting, wood floors. Plans in progress.

Residence, York, Pa. Architects, Gemmill & Billmeyer, Rosemiller Building, York, Pa. Owner, Chas. E. Tucker, York, Pa. Brick and stucco, 2½ stories, 30x40 feet, red tile roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Church and Sunday School (alt.), North Duke street, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, First Methodist Church, Duke street, Lancaster, Pa. Consists of interior alterations. Architects will take approximate bids next week.

Residence, Kutztown, Pa., \$9,000. Architect, D. M. Rothenberger, 140 N. Queen st., Lancaster, Pa. Owner, Walter C. C. Snyder, Kutztown, Pa. Brick, 2½ stories, 28x66 feet, slate and tin roof, parquetry floors, electric lighting. Plans completed. Owner ready for bids.

Residence (alt. and add.), Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, J. Fred Fisher, Lancaster, Pa. Brick, 3 stories, 48x60 feet, tin and slag roof, hot water heating, electric lighting, hardwood floors. Plans completed. Architect ready for bids.

Garage, Haverford, Pa. Architects, Broekie & Hastings, 1713 Sansom street, Philadelphia. Owner, T. Mitchell Hastings, 1713 Sansom st., Philadelphia. Frame and stucco, 1 story, 20x23 feet, shingle roof, cement floors. Architects taking bids, due as soon as possible. Wm. H. Eddleman & Sons, 453 Green lane, Roxborough, Pa.; John Z. Weaver, Ardmore, Pa., and Gray Bros., Rosemont, Pa., are figuring.

Factory Building (alt. and add.), Marion street, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, D. S. & W. Hosley Co., on premises. Brick, 4 stories, 40x40 feet, slag roof, steam heating, electric lighting, metal sash, sprinklers, maple floors, (1) elevator. Plans in progress.

School, Annville, Pa., \$75,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board of Annville, Pa.; H. M. Wagner, secretary. Preliminary plans in progress.

Factory and Office Buildings, Pottstown, Pa. Architect, Arthur S. Kepner, Pottstown, Pa. Owners, North American Motor Co., Pottstown, Pa. Brick and steel, 1 story, 302x73 feet, and 2 stories, 73x49 feet, slag roof, cement and pine floors, metal lath, waterproofing, metal lockers (heating and electric lighting reserved). Architect taking bids, due March 22d. Irwin & Leighton, 123 North Twelfth street; Hughes-Foulkrod Co., Commonwealth Building, are figuring.

Garage, Washington street, Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Heydt Motor Car Co., care of Mr. Heydt, Reading, Pa.

Brick, 2 stories, 58x90 feet, slag roof, hot water heating, electric lighting, metal lath, wood floors, (1) elevator. Architect taking sub-bids, due as soon as possible.

Power House, Erie, Pa. Architects, Day & Zimmermann, 611 Chestnut street, Philadelphia. Owners, Erie Lighting Co., Erie, Pa. Brick, reinforced concrete and steel, 1 story, slag roof, cement floors. Plans in progress. Ready for bids in two weeks.

Municipal Buildings, Chester, Pa. Architect, Clarence Wilson Brazier, 1133 Broadway, New York City. Owners, City of Chester, John H. Mirkil, supt. of Parks and Public Property, City Hall, Chester, Pa. Stone and steel (fireproof construction), 80x80 feet and 2 wings, 45x24 feet and 44x72 feet (steam heating, plumbing and electric work separate bids). Owners taking bids, due April 16th at noon. Plans may be seen at the City Hall, Chester, Pa., or can be obtained from architect.

Store and Apartment, Third and Franklin streets, Chester, Pa. Architect, Frank V. Graustein, Empire Building, Philadelphia. Owner, Dr. Albion, Chester, Pa. Brick and terra cotta, 3 stories, 16x70 feet, slag roof, hot water heating, electric lighting, tile work. Plans about completed. Architect will take bids.

Residence, Glenside, Pa. Architect, Oliver Randolph Parry, 1631 Chestnut street, Philadelphia. Owner, John E. Wetzel, 7041 Torresdale avenue, Philadelphia. Hollow tile, 2½ stories, 38x46 feet, shingle roof, electric lighting, hardwood floors, tile work, heating not decided. Revised plans in progress.

Shop and Garage (add.) and Storeroom, Drexel Hill, Pa. Architect, E. Kenney Crothers, 5215 Chestnut street, Philadelphia. Owners, Drexel Hill Motor Co., Drexel Hill, Pa. Brick, hollow tile and plaster, 1 story, 50x80 feet addition, and 30x25 feet, slag roof, steam heating, electric lighting, cement and pine floors. Architect taking bids, due March 23d. Harry W. Koch, Drexel Hill, Pa.; Edw. V. Holland, Harwood Park, Pa.; J. D. Fisher, 5424 Thompson street, and John P. Fallen, 449 South Sixth street, are figuring.

School and Auditorium, Sharon Hill, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Holy Spirit Parochial School, care of Rev. Jos. P. Monville, on premises. Brick, steel and concrete, stone trimmings, 2 stories and basement, 125x38 feet and 45x17 feet, slag roof, cement, maple and pine floors, metal lath, waterproofing and dampproofing (electric work and heating reserved). Revised plans in progress.

Apartment House, George and Philadelphia streets, York, Pa. Architect, not selected. Owner, Westley Baum, George and Philadelphia streets, York, Pa. Brick, 3 stories, 20x125 feet. Work completed.

Store and Apartment, Hanover, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, George N. Gitt, Hanover, Pa. Brick, 3 stories, 60x100 feet, composition roof, wood

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floors. Plans in progress. Too early for details.

Residence, Lancaster, Pa. Architect, M. R. Evans, 10 E. Orange street, Lancaster, Pa. Owner, Benjamin Reese, Lancaster, Pa. Brick, 2½ and 3 stories, 17x40 feet, tin roof, hot water heating, electric lighting, yellow pine floors. Architect will take bids in one week.

Residence, West End avenue and Walnut street, Lancaster, Pa. Architect, M. R. Evans, 10 E. Orange street, Lancaster, Pa. Owner, Harry L. McClure, College avenue, Lancaster, Pa. Brick, 2½ stories, 28x48 feet, slate roof, hot water or vapor heating, electric lighting, hardwood floors. Plans completed. Architect will take bids next week.

Garage, Brownstown, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, Dr. A. V. Walter, Brownstown, Pa. Concrete block, 1 story, 43x60 feet, slag roof, hot water heating, electric lighting, concrete floors, gasoline storage system. Plans in progress.

Sunday School, Newberry and Philadelphia streets, York, Pa., \$35,000. Architects, Gemmill & Billmeyer, York, Pa. Owners, First United Brethren Church, care of Rev. Long, York, Pa. Stone, brick and steel, 2½ stories, 75x110 feet, slate and tin roof, fan system of hot air heating, electric lighting, hardwood floors and composition floors, sliding fire doors. Architect has received revised bids.

Laundry Building and Apartment House, Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, W. E. Beyer, Lancaster, Pa. Brick and terra cotta, 3 stories, 72x135 feet, slag roof, steam heating, electric lighting, cement floors, marble work. Plans completed. Architect ready for bids.

Residence, near Bycot, Bucks Co., Pa., \$4,000. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, name withheld. Stone, frame and stucco, 2½ stories, 31x35 feet, shingle roof, pine floors, hot air heating. Plans in progress.

Garage, Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, Fred Fisher, Lancaster, Pa. Brick, 2 stories, 43x46 feet, slag roof, hot water heating, electric lighting, cement and yellow pine floors, (1) elevator, gasoline storage system. Plans in progress.

High School (interior work), Lebanon, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, School Board of Lebanon, Pa. Consists of installing plumbing fixtures, hot air heating and ventilating,

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electric work, hardware and decorative plastering. Owners have received bids.

Church, Monroe, Clarion County, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, St. Mark's Reformed Church, Clarion County, Pa. Stone, 1 story, 60x75 feet, slate roof, hot air heating, gas lighting, pine floors. Plans about completed. Owners will take bids.

Residences (8), Sharon Hill, Delaware County, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Mrs. Maud M. Neel, care of architects. Brick, 2 stories, 20x30 feet, shingle roof (hot water heating, plumbing, tile work, electric work and cement walks reserved), pine floors, tile work, metal lath. Architect taking bids, due March 29th. Wills-Ludwick Co., 34 South Seventeenth street; McCloskey & Bahl, 1620 Thompson street; E. J. Kreitzburg, 1345 Arch street; Frederick C. Storek, 3519 North Thirtieth street, are figuring.

Sewage System (add.), West Chester, Pa. Engineer (borough), Nathan Rambo, West Chester, Pa.; engineers (consulting), Remington & Vosbury, Camden, N. J. Addition to present system, pumping station and cast iron pipe main. Plans in progress by Remington & Vosbury, Camden, N. J.

Residences (4), East Lansdowne, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, J. Charles Yundt, 301 West Tabor road, Philadelphia. Hollow tile and stucco, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, parquet floors. Owner taking sub-bids.

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tect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Globe Realty Co., Eddystone, Pa. Frame, 1 story, 55x60 feet, shingle roof. Plans in progress.

Factory (alt. and add.), Clifton Heights, Pa. Architect, Frank E. Hahn, 1113 Chestnut street, Philadelphia. Owners, Caledonia Worsted Mills, Clifton Heights, Pa. Brick, 2 stories, 36x56 feet (heating, lighting, elevator and sprinkler system reserved), composition roof, cement and maple floors, ventilators, waterproofing. Architect taking bids, due March 26th at 2 P. M. The following are figuring: Lam Building Co., 1001 Wood street; Smith-

Hardican Co., 1606 Cherry street; Freund Const. Co., Bulletin Building; Nickson-Duggan Const. Corp., 1218 Chestnut street; Bailey-Lush Co., 201 North Broad street, and Abel Bottoms & Sons Co., Inc., 3611 Walnut street, Philadelphia.

Residence, Laverock, Pa. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Alfred C. Harrison, Drexel Building, Philadelphia. Stone, 2½ stories, waterproofing. Architects taking bids on foundation work only, due March 23rd. F. E. Wallace, 1220 Chancellor street, and Wm. H. Carr, 4911 Germantown avenue, are figuring.

PENNSYLVANIA

Contracts Awarded

Apartment (alt. and add.), Lansdowne, Pa., \$14,000. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, T. Elwood Bartram, Lansdowne, Pa. Brick (3 story addition), 2 wings, 19x17 feet, slate roof, oak floors, hot water heating, electric lighting, tile work. Contract awarded to Geo. W. Riley, Lansdowne, Pa.

Garage, Shillington, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owner, John L. Rhodes, Reading, Pa. Brick, steel, concrete and stone, 2 stories and basement, 48x126 feet, slag roof, steam heating, electric lighting, metal lath, concrete floors, gasoline storage system. Contract awarded to Daniel Hunter, Reading, Pa.

Residence, Wyomissing, Pa., \$25,000. Architect, H. J. Maurer, Boer Building, Reading, Pa. Owner, William H. Hondel, Reading, Pa. Brick and stucco, 2½ stories, 41x85 feet, tile roof, hot water heating, electric lighting, hardwood and tile floors, cabinet work, tile and marble work (heating and plumbing reserved). Contract awarded to Chas. Schlegel, Mt. Penn, Reading, Pa.

School, Newberry and Kurtz streets, York, Pa., \$40,000. Architects, Leber & Stair, associated, York, Pa. Owners, Board of Education, M. O. Lewis, York, Pa. Brick and terra cotta, 2½ stories, 66x99 feet, slag roof, steam heating, electric lighting, hollow tile, metal sash, fire doors, tile and marble work, metal window guards. Contract awarded to George W. Gilbert, York, Pa.

Residence and Garage, Wynnewood, Pa., \$30,000. Architect, Frank Seeburger, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 45x54 feet, shingle roof, hot water heating, electric light-

ing, metal lath, tile work, oak floors. Contract awarded to Graham-Campion Co., Otis Building, Philadelphia.

Gate Lodges (2), Laverock, Pa., \$25,000. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Alfred G. Harrison, Drexel Building, Philadelphia. Stone, 2½ stories, 35x45 feet, slate roof, hot air heating, pine and concrete floors, metal lath (electric work reserved). Contract awarded to Wm. H. Carr, 4911 Germantown avenue.

Automobile, Wagon and Implement Storage Building, Andalusia, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, Henry F. Michel Co., 513 Market street, Philadelphia. Frame, 1 story, 75x25 feet, flexible roof and walls, concrete work. Contract awarded to Thomas J. Carberry, Heed Building, Philadelphia.

Borough Hall and Fire House (add.), Ambler, Pa., \$4,000. Architects, Schermerhorn & Phillips, 430 Walnut street. Owners, Wissahickon Fire Co., Ambler, Pa. Brick, stone and terra cotta, 1 additional story, 30x56 feet, asbestos roof, steam heating, electric lighting, metal lath. Contract awarded to Henry P. Schneider, 3713 Old York road.

Sanitorium (add.), Chestnut Hill, Pa., \$1,500. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Bella Vista Sanitorium, care of Dr. H. L. Randall, on premises. Stone, 1 story and basement, 20x20 feet, slate roof, composition and cement floors, electric lighting. Contract awarded to Henry P. Schneider, 3713 Old York road.

Cottage and Mare Brook Stable, Goldfry road, Radnor, Pa. Architects, Adams & Manning, 1700 Walnut street, Philadelphia. Own-

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1927 W. Montgomery Avenue, Philadelphia, Pa.

er, Robert L. Montgomery, 131 South Fourth street, Philadelphia. Stone and plaster, 2 stories, 25x35 feet; stable, 1 story, 200x50

feet, shingle roof, hot air heating, electric lighting, pine floors. Contract awarded to W. Harry Roberts, Ardmore, Pa.

NEW JERSEY

Construction News

Machine Shop (add.), Plainfield, N. J. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Brick and steel, 1 story, 288x76 feet, slag roof, cement and pine floors, electric lighting. Plans nearly completed. Architects ready for bids in one week.

Dormitory Building, N. J. School for Deaf, Trenton, N. J. Architect, Geo. S. Drew, Capital Building, Trenton, N. J. Owners, N. J. State Board of Education, State House, Trenton, N. J. Brick, 3 stories and basement, 36 x 113 feet, slag roof (heating and lighting and plumbing reserved), concrete and pine floors, tile and marble work, metal window guards, dampproofing, iron stairs. Owners taking bids, due April 7th at noon. Metzger & Fisher, Denckla Building, and Nickson-Dugan Const. Corp., 1218 Chestnut street; Hughes-Foulkrod Co., Commonwealth Building; James H. Wells, Otis Building, Philadelphia; J. S. Rogers, Moorestown, N. J.; Campbell & Dempsey Co., Kingston, N. J.; Samuel Wiley, Charles Y. Barlow, Joseph P. Barlow, Scott & Day, Burton & Burton, and H. R. Fell Co., all of Trenton; Guerber Eng. Co., Bethlehem, Pa.; Hugh B. Miller, Edgewater Park, N. J.; A. Hankin, 53 Belmont avenue, Jersey City, N. J., and George B. Wills, 101 Park avenue, New York City, are figuring.

Residence (alt. and add.), Merchantville, N. J. Architect, Henry A. Macomb, 214 S. Seventh street, Philadelphia. Owner, S. P. Howe, Merchantville, N. J. Frame and timber, 2½ stories, addition 23x8 feet, cotton duck roof, steam heating, electric lighting, tile work. Architect taking bids, due March 25th. Geo. W. Sheppard and Martin James, Merchantville, N. J., and Geo. Bachman, 19 North Thirtieth street, Camden, N. J., are figuring.

Sea Wall and Jetties, Longport, N. J., \$300,000. Engineers, Case Coast Protection Corp., 1170 Broadway, N. Y. City. Owners, Borough of Longport, Board of Commissioners, Borough Hall, Longport, N. J. Reinforced concrete wall, 6,090x16 feet, promenade, 6,090x 14 feet, jetties, 300x6 feet, 3,045 reinforced concrete pilings, concrete hardener. Plans can be obtained from the following: Office of Borough Clerk, Longport, N. J.; E. D.

Rightmire, Guarantee Trust Building, Atlantic City, N. J.; John Meigs, Pennsylvania Building, Philadelphia; Case Coast Protection Corp., 1170 Broadway, N. Y. City. Owners taking bids, due March 24th at 2 P. M. The following are figuring: Snare & Triest Co., Pier 78 S. Wharves; J. H. Terry Co., Drexel Building; Chas. McDermott, Pennsylvania Building; F. W. Mark Const. Co., Finance Building, and Jos. G. Champion, Ocean City, N. J.

Fire Station, Vineland, N. J. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, City of Vineland, N. J. Brick, 2 stories, 75x30 feet, slag roof. Plans in progress.

Glass Factory, Palmyra, N. J. Architect, Frank V. Nichols, 1539 Real Estate Trust Building. Owners, Philadelphia Rich Cut Glass Mfg. Co., care of architect. Brick (mill construction), 1 story and basement, 26x100 feet, slag roof, plank floors, rolled steel sash, dumb elevators (steam heating, electric work and plumbing reserved). Architect taking bids, due March 23d. The following are figuring: Geo. W. Shaner & Son, Chas. Vandergrift, Geo. Storer, all of Palmyra, N. J.; J. S. Rogers Co., Moorestown, N. J., and Frederick Lowden, Riverton, N. J.

Residence (alt. and add.), Riverton, N. J. Architect, J. Fletcher Street, 129 S. Fifth st., Philadelphia. Owner, George Washington, Riverton, N. J. Plaster on present frame structure, 2½ stories, 25x60 feet, new hot water heating, electric lighting, tile baths, plumbing. Architect taking bids, due March 22d at noon. Louis Lowden, Riverton, N. J.; Smith & Stavley, Palmyra, N. J.; and Geo. W. Shaner & Son, Palmyra, N. J., are figuring.

Barn and Sheds (2), Vineland, N. J. Architects, Magaziner & Potter, 603 Chestnut st., Philadelphia. Owner, Maurice Fels, 4305 Spruce street, Philadelphia. Stone and frame, 2 and 1 story, asbestos shingle roof, cement and plank floors. Plans in progress.

Freight Office, Atlantic City, N. J. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, P. & R. Co., Reading Terminal, Philadelphia. Brick and steel, 2 stories, 50x36 feet, slag roof, hot water heating, electric lighting, metal sash, waterproof-

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Building Construction

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ing, fire doors, pine floors, metal lockers, tile and marble work. Owners have received bids.

Apartment House (alt. and add.), 110 Atlantic avenue, Atlantic City. Architect, E. M. Henderer, Sheen Building, Atlantic City. Owner, Jules P. Dedan, on premises. Brick and frame, 4 stories, 25x30 feet, slag roof, steam heating, electric lighting, hardwood floors. Plans in progress.

Post Office Building and Stores, Ventnor, N. J. Architect, Seward G. Dobbins, 10 S. Tennessee avenue. Owner, Wm. Richman, care of architect. Brick, 1 story, 37x80 feet, slag roof, yellow pine floors, electric lighting, tile work. Plans in progress.

Municipal Pier, Somers Point, N. J., \$3,000. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owners, City of Somers Point, Somers Point, N. J. Frame, auditorium 24x40 feet, approach 200x8 feet, composition roof, yellow pine floors, electric lighting. Plans in progress.

Court House (alt. and add.), Mays Landing, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Board of Freeholders, Atlantic County, N. J. Plans about to be started. Too early for details.

Boiler House, Tennessee avenue and Boardwalk, Atlantic City, N. J. Architect, J. C. Westerville, New York City. Owners, Childs Co., Atlantic City, N. J. Brick, 1 story, 14x50 feet and 12x20 feet. Owners taking bids. C. D. Thompson, Atlantic City, N. J., is figuring.

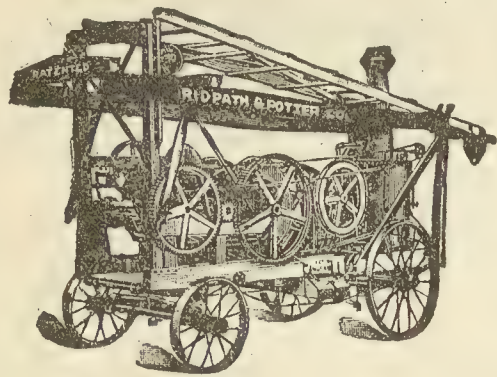
Moose Home (alt. and add.), 714 Atlantic avenue, Atlantic City, N. J. Architect, S. Headley, Guarantee Trust Building, Atlantic City, N. J. Owners, Loyal Order of Moose, 714 Atlantic avenue, Atlantic City. Brick, 2 stories, 74x40 feet, slag roof (heating and lighting reserved), yellow pine floors. Owner taking bids, due March 16th. C. D. Thompson, Guarantee Trust Building; Samuel Headley, Guarantee Trust Building; W. Beaumont, 12 South Tennessee avenue, and Wesley B. Porch, Sheen Building, are figuring.

High School, Cape May, N. J. Architect, J. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board of Cape May, Cape May, N. J. Brick, 3 stories, 56x 125 feet, slag roof, steam heating, electric lighting, metal lath, wood floors. Owners taking bids, due April 9th.

High School, Cape May Court House, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board of Cape May Court House, N. J. Brick, 3 stories, 96x94 feet, slag roof, steam heating, electric lighting, metal lath, yellow pine floors. Owners taking bids, due March 30th.

Warehouse No. 4 (add.), Penn street wharf, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets. Owners, Joseph Campbell Co., Camden, N. J. Brick, corrugated iron, 1 story, 50x176 feet, slag roof, asphalt floors (heating and electric lighting reserved), hollow metal skylights. Architect taking bids, due March 22nd. Armstrong & Latta, Land Title Building; Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; H. E. Baton, Twelfth and Sansom streets; Pomeroy Const. Co., 1609

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Ranstead street; Philip Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia, and J. S. Rogers Co., Moorestown, N. J., are figuring.

Sewage Disposal Plant, Paulsboro, N. J., 80,000. Engineers, Remington & Vosbury, Seventh and Market streets, Camden, N. J. Owners, Borough of Paulsboro, N. J. Sani-

tary and storm sewers, sewage disposal plant. Plans in progress.

Garage, Vineland, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Evan E. Kimble, Vineland, N. J. Brick and hollow tile, 2 stories, 32x35 feet, tile roof, hot water heating, electric lighting, cement and pine floors. Plans in progress.

NEW JERSEY

Contracts Awarded

Office Building (add.), South Tennessee avenue, Atlantic City, N. J. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owners, Atlantic City Fire Ins. Co., on premises. Stone, 1 story, 20x42 feet, tile and wood floors, tile work. Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City.

Store (alt. and add.), 2408 Atlantic avenue, Atlantic City, N. J. Architect, B. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Ralph Johnson, on premises. Brick, 1 story, electric lighting, hardwood floors, tile and marble work. Contract awarded to H. G. Scull, Sheen Building, Atlantic City, N. J.

Apartment House, Virginia avenue, Atlantic City, N. J. Architect, Samuel Headley, Guarantee Trust Building, Atlantic City. Owner, Mich Georgetti, care of architect. Brick, 3

stories, 40x82 feet, slag roof, hot water heat, electric light, tile work, yellow pine floors, metal lath. Contract awarded to Samuel Headley, Guarantee Trust Building, who will take sub-bids at once.

Residence (add.), Greenwich, N. J., \$550. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, R. Francis Wood, Wayne, Pa. Frame, second story addition, 12x18 feet (hot air heating, plumbing, electric work reserved), tin roof. Contract awarded to Elfreth & Co., 1633 Ranstead street, Philadelphia.

Filtration Plant, New Brunswick avenue, Trenton, N. J. Engineer, E. H. Earnshaw, Newark, N. J. Owners, Public Service Gas Co., Newark, N. J. Brick, 2 stories, 18x36 feet, slate roof, steam heating, concrete floors, electric lighting. Contract awarded to Wm. Musson, Trenton, N. J.

Miscellaneous Construction News

Office Building (Du Pont Building), Orange between Tenth and Eleventh streets, Wilmington, Del. Engineer, F. W. Russum, Eleventh and Orange streets, Wilmington, Del. Owners, Du Pont Co., Tenth and Market sts., Wilmington, Del. Brick and steel (fireproof construction), 12 stories, 201x55 feet and 105 x50 feet, electric lighting, concrete floors, hollow tile. Plans completed. Owners will build. Will excavate in about three weeks.

Dry House (alt.), Newark, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, American Vulcanized Fibre Co., on premises. Brick, 1 story, 60x100 feet, asbestos shingle roof, steam heating, electric lighting, maple floors, fire doors (sprinkler extension and heating reserved). Plans in progress.

Factory (extension), Winston Salem, N. C. Architect, J. E. Sirrine, Greenville, S. C. Owners, R. J. Reynolds Tobacco Co., Winston Salem, N. C. Brick, steel and reinforced concrete, 5 stories, 240x175 feet, slag roof, maple concrete and asphalt floors, metal sash, water-

proofing, fire doors, ventilators, metal window guards, hollow tile, metal skylights, rolling steel shutters (plumbing, elevators, heating, electric work and sprinkler reserved). Architect taking bids, due in two weeks. Turner Concrete Steel Co., 1713 Sansom street, Philadelphia, is figuring.

High School, Rocky River, Ohio. Architect, N. H. Nicklas, Cleveland, Ohio. Owners, School Board of Cuyahoga County, Rocky River, Cuyahoga County, Ohio. Brick, stone trim, 2 stories, 120x95 feet, Tocco seal roof, pine and concrete floors, vacuum heating, electric lighting, tile work, metal lath, fire doors, waterproofing and dampproofing, iron stairs. Owners taking bids, due April 6th. James H. Wells, Otis Building, Philadelphia, is figuring

The man "who doesn't believe in advertising" can't understand why the other fellow gets the business.

Miscellaneous Contracts Awarded

Office Building, Eleventh and Poplar sts., Wilmington, Del. Architects, Brown & White-side, Du Pont Building, Wilmington, Del. Owners, New Castel Leather Co., Wilmington, Del. Brick and concrete, terra cotta trimmings, 3 stories, 30x68 feet, tile and slag roof, reinforced concrete floors, tile and marble work, hollow tile, fire doors, skylights, terrazzo work (heating, plumbing, electric work, sprinklers, hardwood floors, elevator, paving, office partitions reserved). Contract awarded to W. D. Haddock & Son, 804 Orange street, Wilmington, Del.

Passenger Terminal Concourse, Baggage Building and Subway, Jacksonville, Fla., \$750,000. Architect, Kenneth M. Murchison, 101 Park avenue, New York City. Owner, Jacksonville Terminal Co., Jacksonville, Fla. Brick, stone, steel, hollow tile, reinforced concrete, 1 story and mezzanine, 361x78 feet and 2 stories, 344x118 feet, slag, asbestos, slate and tile roof, metal lath, rolled steel sash, waterproofing and dampproofing, fire doors, safety treads, tile and marble work, composition, cork and cement floors, metal skylights, dumbwaiters, terrazzo work (heating, plumbing, electric work and elevator reserved). Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Maryland

Construction News

Residence, Middletown, Md., \$15,000. Architect, Edward Leber, Hay Building, York, Pa. Owner, Chas. H. Shank, Middletown, Md. Brick, 2½ stories, 36x48 feet, tile or slate roof, electric light, hot water heating, tile and marble work. Architect has received bids.

Freight House (add.), Pratt street, Baltimore, Md., \$30,000. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore, Md. Owners, Washington, Baltimore and Annapolis Electric Railway Co., Baltimore, Md. Concrete, brick and steel, fireproof, 30x181 feet, concrete and slag roof. Plans in progress.

Store (remodeling), 1730 North Charles st., Baltimore, Md. Architect, private plans. Owner, James W. Bruton, York road, near Sheppard Hospital. Brick, 3 stories, electric light, elevators, iron work, heating, painting and plumbing. Charles Hildebrand, Jr., 33 Batavia avenue, Hamilton, Md., will take sub-bids on all lines.

Transformer Building, Sparrows Point, Md. Architect, private plans. Owners, United Railways and Electric Co., Continental Building, Baltimore. Concrete and steel and brick, slag roof. Plans in progress. Too early for details.

Residence (alts. and add.), 209 West Monument street, Baltimore, Md. Architects, Mottu & White, 322 North Charles street, Baltimore. Owner, John D. Howard, South and German streets, Baltimore. Brick, 3 story addition, tin roof, electric wiring, plumbing and heating. Architects taking bids, due March 23rd. The following are figuring: Willard E. Harn Co., 213 North Calvert street; Cowan Building Co., 106 West Madison street; The John Waters Building Co., 23 East Center street; G. Walter Tovel, Eutaw and McCulloh sts.; Thos. L. Jones & Son, 410 West Saratoga st., and Thos. B. Stanfield & Co., 212 Clay street, all of Baltimore, Md.

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Commons Building, St. Paul and Twenty-third streets, Baltimore, Md. Architects, Elliott & Emmart, Union Trust Building, Baltimore, Md. Brick (mill construction), 2 stories, slate roof, iron work, plumbing (heating and wiring reserved). Builders, B. F. Bennett Building Co., 123 South Howard street, Baltimore, will take sub-bids.

Residences (12), Walbrook, Baltimore, Md. Architect, George R. Morris, Title Building, Baltimore. Owners, Northwest Real Estate Co., Title Building, Baltimore. Frame, 2 stories, slate or tin roofs, steam heating, electric lighting, plastering, painting, plumbing, interior tile, hardwood floors. Builder, George R. Morris, 533 Title Building, Baltimore, taking sub-bids on all lines.

Residences (6), Eastern avenue, Baltimore, Md., \$10,800. Architect, private plans. Owners, Eastern Development Co., 806 Lexington street, Baltimore. Brick, 2 stories, paving and sewerage system. Owners taking sub-bids.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Dwellings (28), Fifty-fourth street and Warrington avenue, \$70,000. Ferguson McDowell (O and C), 1003 South Fifty-first st. Brick, 2 stories, 15x70 feet, slag roof, hot water heating.

Dwellings (2), Fifty-fourth and Warrington avenue, \$5,200. Ferguson & McDowell (O and C), 1003 South Fifty-first street. Brick, 2 stories, 15x70 feet, slag roof, hot water heating.

Sales and Service Station, 1214 N. Broad street, \$40,000. Kahn & Greenburg (O and C), 309 Morris Building. Brick, reinforced concrete, 4 stories, 31x160 feet, slag roof.

Dwellings (2), 5001 and 5047 North Tenth street, \$6,400. Jacob Rottman (O and C), 1517 E. Moyamensing avenue. Brick, 2 stories, 16x95 feet, 16x55 feet, slag roof, hot water heating.

Dwellings (22), 5003 to 5045 North Tenth street, \$6,600. Jacob Rottman (O and C), 1517 E. Moyamensing avenue. Brick, 2 stories, 16x95 feet, slag roof, hot water heating.

Dwellings (10), 146 feet west of Fifty-first street, \$30,000. Calvin W. Rogers (O and C), 237 South Forty-ninth street. Brick, 2 stories, 15x80 feet, slag roof, hot water heating.

Dwelling, Fifty-first and Wyalusing avenue, \$3,000. Calvin W. Rogers (O and C), 237 S. Forty-ninth street. Brick, 2 stories, 14x80 feet, slag roof, hot water heating.

Dwelling (22), Woodbine, Wynnefield, Fifty-fourth to Fifty-sixth streets, Wynnefield, Pa., \$186,000. W. Percival Johnson (O and C), 4039 Lancaster Avenue. Brick, 3 stories, 22x40 feet, tile roof, hot water heating.

Store and Residences (2), 2225-27 South Seventh street, \$5,500. Philip Davis (O and C), 1514 E. Moyamensing avenue. Brick, 3 stories, 14x24 and 14x27 feet, slag roof, hot air heating.

Residences (6), 2913-21 Rorer street, 2918 Hartville street, \$7,500. S. Field (O and C), 545 E. Cambria street. Brick, 2 stories, 14x27 feet, slag roof, hot water heating.

Tool House, northeast corner Twelfth and Glenwood avenue, \$1,340. Penna. RR. Co.

(O), Broad Street Station. John V. Speth & Co. (C), 1714 Sansom street. Hollow tile, 1 story, 17x31 feet.

Garages (2), Slocum and Musgrave streets, \$4,500. H. M. Eddishaw (O), Nippon and Bryan streets. L. D. Stites (C), 126 Herman street. Brick, 1 story, 21x53 feet, slag roofs, hot water heating, electric lighting, cement floors.

Garage, 2860 Emerald street, \$1,300. Wm. Lentz (O and C), Tioga and Kensington avenue. Brick, 1 story, 17x93 feet, cement floor.

Garage, 84 W. Johnson street, \$1,000. M. J. Lester (O), on premises. W. J. Gruhler Co. (C), 219 E. High street. Brick, 1 story, slag roof, cement floor.

Shop, 2710 North Hope street, \$3,000. Frank Fifer, northwest corner Front and Lehigh avenue. Robert Beatty & Bro. (C), 2321 E. Fletcher street. Brick, 2 stories, 34x45 feet, slag roofing.

Garage, 1417-25 Melon street, \$7,800. Harry T. Laurders (O), 31 South Eighteenth street. Herman Voigt (C), 1251 North Twenty-eighth street. Brick, 1 story, 80x69 feet, slag roof.

Garage, 1223-27 Hamilton street, \$6,500. Harry T. Saurders (O), 31 South Eighteenth street. Herman Voigt (C), 1251 N. Twenty-eighth street. Brick, 1 story, 42x85 feet, slag roof.

Dwellings (4), Graves lane and Anderson street, \$15,200. John Cerig (O and C), 8521 Germantown avenue. Brick, 3 stories, slate roofing, pine floors.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

Maryland

Contracts Awarded

Building News (alts. and add.), Monument street and Park avenue, Baltimore. Architects, Wyatt & Notling, Keyser Building, Baltimore. Owners, Maryland Historical Society, care of Edwin Warfield, St. Paul and Saratoga streets, Baltimore. Brick, marble trim, tile, terrazzo and marble interior work, plumbing, heating, electric wiring, ornamental iron, tile and slate roof. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore.

College Buildings, College Park, Md., \$151,000. Architects, Flournoy & Flournoy, 1517 H street, Washington, D. C. Owners, Maryland Agricultural College, College Park, Md. Brick, steel and concrete, 3 stories and basement, 57x200 feet; 1 story, 66x55 feet; 1 story, 55x190 feet, slate roof, steam heating, electric wiring, plastering and plumbing. Contract awarded to H. D. Watts Co., Garrett Building, Baltimore, Md.

Alterations and Additions

Runway, 366 North Twenty-fourth street, \$1,500. Knickerbocker Lime Co. (O), on premises. John Hazzard (C), on premises. Repair runway.

Storeroom, 21-23-25 South Third street, \$3,500. Anna Frost (O), 533 South Fifty-fourth street. F. Eshcoman (C), 1700 North Sixtieth street. Fire repairs.

Store, 206-208 Market street, \$3,500. Louis K. Liggelt Co. (O), New York. Smith Hardican Co. (C), 1606 Cherry street. Interior alterations.

Dwelling and Store, 2767 North Croskey street, \$500. Joe Cohen (O), on premises. Max Shaffer (C), 602 Hoffman street. Flush bulks.

Dwelling, 3255 North Front street, \$1,000. Daniel Duffy (O), on premises. John Witmer (C), 3024 E street. Brick, 2 story addition, 14x14 feet, tin roof.

Store and Storage, 1514-16 Market street, \$8,500. David Becker (O), on premises. Smith Hardican Co. (C), 1606 Cherry street. Interior alterations and new flush bulk.

Store and Dwelling, 1745 North Twenty-second street, \$400. J. L. Cresse (O), 308 Hale Building. Jas. H. Hallman (C), 5218 Vine street. Steam heating system.

Store, 1214 South Seventh street, \$2,000. Frank Lucci (O and C), 1603 Ellsworth street. Brick, 3 stories, general repairs, slag roof.

Storage, Twenty-third and Washington avenue, \$10,000. Belmont Iron Works (O), Twenty-second and Washington avenue. J. G. Shylock, Eng. (C), on premises. Iron on iron frame, 1 story, 107x145 feet.

Store and Dwelling, Seventeenth and Poplar streets, \$400. Thos. Hydenson (O), 1435 North Thirteenth street. Heist & Doherty (C), 1216 North Eleventh street. New flush bulk.

Dwelling, 508 Spruce street, \$300. M. Luber (O), on premises. Nathan Lehrman (C), 920 Wolf street. Brick, 1 story addition, 12x12 feet, tin roof.

Store and Dwelling, 3122 Kensington avenue, \$500. A. Jacoby (O), on premises. H. P. Werner (C), 3245 Germantown avenue. Flush front bulk.

Stable and Shed, 1326 N. Conestoga street, \$800. Richard Cornelius (O), on premises. Hugh McConaghy (C), 1330 N. Conestoga st. Brick, 27x16 feet; shed, 40x12 feet.

Dye House, 3211 Amber street, \$1,000. General Processing Co. (O), on premises. H. E. Baton (C), Twelfth and Sansom streets. Repair fire damage.

Dwelling, 1924 Arch street, \$2,000. R. R. Bringhurst (O), 38 North Eleventh street. Chas. J. Platt (C), 1015 Arch street. Interior alterations and steam heating.

Garage, 1923 Cuthbert street, \$1,000. R. R. Bringhurst (O), 38 North Eleventh street. Chas. J. Platt (C), 1015 Arch street. Brick, 2 stories, 25x21 feet.

Stores (3), 700 South street, \$1,300. Basch & Co. (C), 1420-36 South Front street. Bulk windows, galvanized iron cornice.

Barn, Seventy-second and Powers lane, \$350. Paul Lee (O), on premises. Chas. Roberts (C), 7712 Chelnynde avenue. Repairs only.

Store and Dwelling, 215 W. George street, \$900. Karl Heller (O), on premises. John Hoeffe (C), 2016 North Fifth street. Brick, 2 story annex, 14x15 feet.

Store, 2032 North Broad street, \$5,700. Mrs. M. R. Isaacs (O), Lorraine Hotel, Broad and Fairmount avenue. Samuel J. Rea & Son (C), 1608 Fairmount avenue. Brick and stone, 3 story rear addition, 4x32 feet.

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Store and Dwelling, 2024 North Second street, \$400. Lukins Montgomery (O), 1135 Schackamaxon avenue. Joseph Rivs (C), 1331 North Front street. Bulk windows.

Storage, 1211-23 Noble street, \$500. John W. Bougtore (O), 1220 Hamilton street. F. Dolin (C), Audubon, N. J. Widening doorways connecting rooms.

Garage, 810-22 North Twenty-sixth street, \$9,500. James T. Tennesey (O), Twenty-sixth and Ogden streets. Herman Voigt (C), 1251 North Twenty-eighth street. Brick, 1 story, 121x100 feet, second story front, 24x28 feet.

Dwelling, 4207 Baltimore avenue, \$1,400. Estate of Richard T. Gumpert (O), on premises. Wilbert O. Springer (C), 1624 Latimer street. Repair roof and interior work.

Garage, Friendship, east of Tulip street, \$325. A. S. Sayles (O), 7131 Tulip street. M. Moreter & Co. (C), 3931 North Fifth street. Steel, portable, 16x18 feet.

Dwelling, 820 North Thirty-eighth street, \$500. V. Ford (O), on premises. E. Keeper & Son (C), 1321 Rodman street. Repair fire damage.

Store and Dwelling, 1312 South Seventh street, \$1,200. Umbert Mammucire (O and C), 1220 South Thirteenth street. Brick, 3 stories addition, 14x16 feet, steam heating.

Store and Dwelling, 4336 Frankford avenue, \$2,400. Hockfield Bros. (O), 4334 Frankford avenue. Harry Bobb (C), 3038 Agate street. Brick additions, 10x21 feet, new bulks on first, second and third floors.

Dwelling, 11616 Jefferson street, \$2,000. Mrs. D. B. Kase (O), on premises. J. Frank Grant (C), 1625 North Thirteenth street. Brick, 2 story rear addition, 8x14 feet, hot water heating.

Dwelling, 2551 North Thirty-third street, \$700. Saml Reuiss (O), 4517 North Natrona street. Louis Snedloff (C), 228 South Fifty-ninth street. Brick, 1 story addition, 12x16 feet, tin roof.

Store and Dwelling, 3434 Sansom street, \$1,265. Linda Alloway (O), 3436 Sansom st. Raith Const. Co. (C), 302 Master street. Brick and stone, 3 story addition, 16x5 feet.

Shop, 2911-15 North Orkney street, \$400. Henry Hauptfurer (O), 2900 North Lawrence street. P. N. Reuter & Co. (C), 3421 North Marshall street. Reinforced concrete floor.

Office Building, northwest corner Fourth and Chestnut streets, \$2,000. The Provident Life Trust Co. (O), 409 Chestnut street. A. P. Frain (C), 319 Market street. Interior alteration, new partitions.

Store and Hall, Amber and Norris streets, \$2,000. C. Lodge (O), corner Amber and Norris streets. Robert Beatty & Bro. (C), 2331 E. Fletcher street. New brick front, 2 stories.

Store Building, 1021-23 South Ninth street, \$500. Tuigi Vena (O), on premises. Frank Lucci (C), 1603 Ellsworth street. Tear down.

Motion Picture Theatre, 1311 Market street, \$1,000. A. R. Boyd (O), on premises. Henon & Boyle (C), 10 South Eighteenth street. Brick, consists of general interior alterations.

Store and Dwelling, 1331 South Second st., \$350. Antanas Lazdowskis (O), on premises. Wm. Morrow (C), 320 Harmony street. Fire repairs.

Dwelling, 6177 Glenmore avenue, \$325. Samuel Caputo (O), on premises. Robt Wield (C), 6105 Glenmore avenue. Brick, 1 story addition, 14x10 feet, tin roof.

Bakery Building, 1220-36 Ridge avenue, \$15,000. Parkway Baking Co. (O), Twenty-fourth and Hamilton streets. Essick Const. Co. (C), 1345 Arch street. Brick, general alterations.

Factory Building, northeast corner Sixteenth and Arch streets, \$27,000. Stephen Greene Estate (O), on premises. Frank G. Stewart (C), 1619 Sansom street. Brick, stone and terra cotta, 7 stories.

Store and Dwelling, 534 Pike street, \$350. H. Coplan (O), 532 Pike street. A. Warshoosky (C), 543 North Seventh street. New flush bulk.

Factory, northeast corner Ninth and Cumberland streets, \$2,000. Breyer Ice Cream Co. (O), on premises. Wm. F. Koelle & Co. (C), Twenty-sixth and Oxford streets. Brick, 2 story elevator shaft.

Store and Dwelling, 4800 Frankford avenue, \$520. Charles Kohs (O), 1926 Bridge street. C. C. Cam (C), 1634 Dyer street. Brick, 3 stories, new flush bulk.

Store and Apartment, 626 South Sixtieth street, \$560. Joseph Elvanyan (O), 634 South Sixtieth street. George H. Power (C), 109 N. Fifty-eighth street. Hot water heating plant.

Storage Building, northeast corner Torresdale avenue and N street, \$500. Louis Walther Mfg. Co. (O), on premises. F. H. Whiteman (C), 409 Harrison Building. Steel on steel, 1 story, 20x34 feet.

Warehouse, rear of 4012-14 Ridge avenue, \$2,500. Philip Golden (O), 2723 North Twenty-fifth street. Maurice Golden (C), 2301 Aubune street. Brick, 1 story, 30x65 feet, slag roof, electric light.

Store and Dwelling, 1225 Passyunk avenue, \$500. Cornelius Dougherty (O), on premises. Frank Claus (C), 5348 Race street. Brick, 1 story rear, 14x166 feet, slag roofing.

Store and Dwelling, 4445 Frankford avenue, \$400. Jos. Ball (O and C), on premises. Change stairway in front, interior alterations.

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1. Plumbers' solder.—Lead 2 parts, tin 1 part.
2. Tinmen's solder.—Lead 1 part, tin 1 part.
3. Zinc solder.—Tin 1 part, lead 1 to 2 parts.
4. Pewter solder.—Lead 1 part, bismuth 1 to 2 parts.
5. Spelter solder.—Equal parts copper and zinc.
6. Pewterers' soft solder.—Bismuth 2, lead 4, tin 3 parts.
7. Another.—Bismuth 1, lead 1, tin 2 parts.
8. Another pewter solder.—Tin 2 parts, lead 1 part.
9. Glaziers' solder.—Tin 3 parts, lead 1 part.
10. Solder for copper.—Copper 10 parts, zinc 9 parts.
11. Yellow solder for brass or copper.—Copper 32 lbs., zinc 29 lbs., tin 1 lb.
12. Brass solder.—Copper 61.25 parts, zinc 38.75 parts.
13. Brass solder, yellow and easily fusible.—Copper 45, zinc 55 parts.
14. Brass solder, white.—Copper, 57.41 parts, tin 14.60 parts, zinc 27.99 parts.
15. Another solder for copper.—Tin 2 parts, lead 1 part. When the copper is thick heat it by a naked fire, if thin use a tinned copper tool. Use muriate or chloride of zinc as a flux. The same solder will do for iron, cast iron, or steel; if the pieces are thick, heat by a naked fire or immerse in the solder.
16. Black solder.—Copper 2, zinc 3, tin 2 parts.
17. Another.—Sheet brass 20 lbs., tin 6 lbs., zinc 1 lb.
18. Cold brazing without fire or lamp.—Fluoric acid 1 oz., oxy muriatic acid 1 oz., mix in a lead bottle. But a chalk mark each side where you want to braze. This mixture will keep about 6 months in one bottle.
19. Cold soldering without fire or lamp.—Bismuth $\frac{1}{4}$ oz.,

quicksilver $\frac{1}{4}$ oz., block tin lings 1 oz., spirits salts 1 oz., all mixed together. 20. To solder iron to steel or either to brass.—Tin 3 parts, copper 39½ parts, zinc 7½ parts. When applied in molten state it will firmly unite meals first named to each other. 21. Plumbers' solder.—Bismuth 1, lead 5, tin 3 parts, is a first-class composition. 22. White solder for raised Britannia ware.—Tin 100 lbs., hardening 8 lbs., antimony 8 lbs. 23. Hardening for Britannia.—(To be mixed separately from the other ingredients.) Copper 2 lbs., tin 1 lb. 24. Best soft solder for cast Britannia war.—Tin 8 lbs., lead 5 lbs. 25. Bismuth solder.—Tin 1, lead 2, bismuth 3 parts. 26. Solder for brass that will stand hammering.—Brass 78.26 parts, zinc 17.41 parts, silver 4.33 parts, add a little chloride of potassimu to your borax for a flux. 27. Solder for steel joints.—Silver 19 parts, copper 1 part, brass 2 parts. Melt together. 29. Solder for brass.—Copper 3 parts, zinc 1 part, with borax. 30. Solder for copper.—Brass 6 parts, zinc 1 part, tin 1 part, melt all together well and pour out to cool. 31. Solder for platina.—Gold with borax. 32. Solder for iron.—The best solder for iron is good tough brass with a little borax.

N. B.—In soldering, the surfaces to be joined are made perfectly clean and smooth, and then covered with sal. ammoniac, resin or other flux, the solder is then applied, being melted on and smoothed over by a tinned soldering iron.

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 17, 1917.—Sealed proposals will be received at this office until 3 P. M. April 16, 1917, and then opened, for new roof and miscellaneous repairs, for laundry building, Bureau of Engraving and Printing, Washington, D. C., in accordance with the specification and drawings Nos. 100-B, 400-B, and 401-B, copies of which may be had at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 6, 1917.—Sealed proposals will be opened in this office at 3 P. M., April 18, 1917, for the construction of the United States post office at East Orange, N. J. Drawings and specifications may be obtained from the custodian of the site at East Orange, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

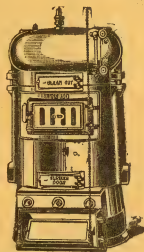
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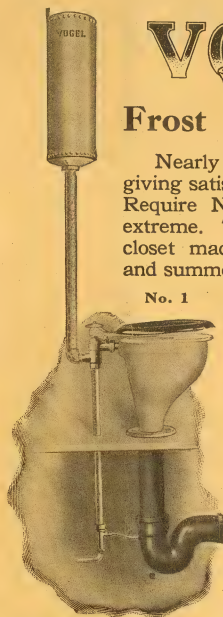
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March 28, 1917

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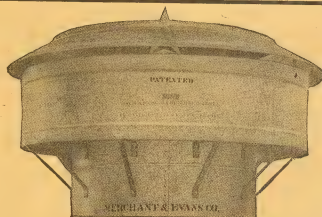
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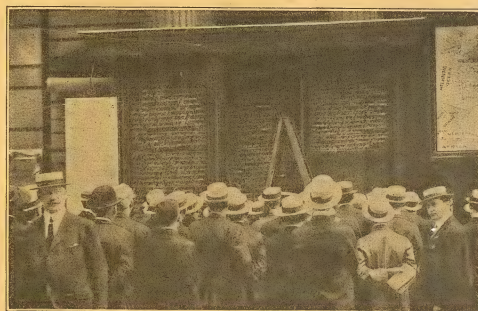
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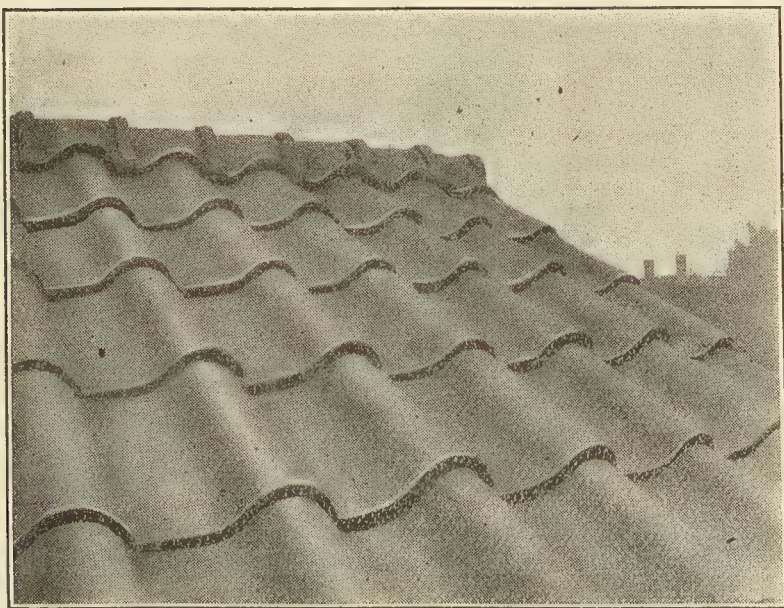
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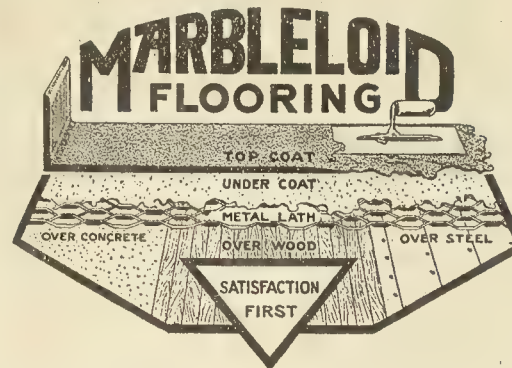


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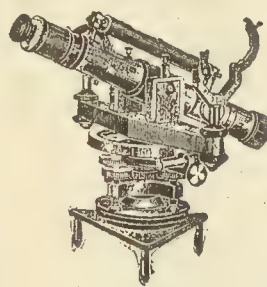
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VOLUME XXXII
Number 13

PHILADELPHIA
March 28, 1917



As The Editor Sees It



MAYOR SMITH'S suggestion of a Convention Hall for Philadelphia, to be constructed of steel and glass, if meant to be taken seriously as an expression of the executive views, should be vigorously opposed by architects, architectural societies and by art circles generally.

With its approval by Mayor Smith, last week, an ordinance became effective that should go far toward assuring the development of the Parkway along proper lines, as regards the appearance, size and use of the buildings that are to be erected on that avenue or in its immediate vicinity. Under the terms of this ordinance it is unlawful for any property owner to alter any building, erect any new structure, display any sign, notice or advertisement, without first obtaining the approval of the Art Jury, whose members are constituted the aesthetic guardians of the avenue.

East of Logan Square, along the line of the Parkway, which also includes the north side of Arch street from Broad street nearly to Eighteenth, no manufacturing establishment, garage or stable may be located. West of Logan Square the restriction is made more sweeping, banning all industrial or commercial properties as well. The billboard and the sky-sign, a feature of modern cities which are absolutely prohibited either on the avenue or on the street within two hundred feet where such signs might be visible from the avenue.

* * *

THE problem of devising the height regulations, which the ordinance prescribes, however, was much more difficult than defining what are held to be objectionable uses of Parkway properties. A uniform sky-line, different on the western portion of the avenue from the limit established on the

eastern end, would have been the most desirable regulation, in the opinion of many architects and planners. The limits established represent an attempt to compromise the views of the extremists with those of the more practical, although the diagonal cutting of the avenue, with its varying frontage widths on either side—a long frontage almost invariably opposing a short frontage—may at first produce some irregularity in building heights.

East of Logan Square one may now build to the height of three times the width of the frontage, but not exceeding two hundred feet, unless the upper floors are set back, under which circumstances the height may reach two hundred and forty-five feet, or twenty feet less than the present height of the Bell Telephone building at Seventeenth street. West of Logan Square the height limit is equal to the frontage, but not exceeding eighty feet, unless the upper floors are set back, in which case, between Twenty-third street and Fairmount Park, the limit is fixed at one hundred feet, and between Eighteenth and Twenty-third streets, at one hundred and sixty feet.

* * *

THE aim is to promote the consolidation of property holdings and erection of a few large buildings rather than many small ones. If individual lots are improved on the basis of the present lot sizes, however, there would be little uniformity, as in the case of the triangle formed by Arch Sixteenth street and the Parkway where the Bell Telephone Building would tower high alongside of a one-hundred-foot-high building its neighbor to the east being held down to seventy-five feet and the tip of the triangle toward the east occu-

pled possibly by a structure one hundred and fifty feet high.

Extending two hundred feet on either side of the Parkway the restriction will cover many properties on the north and south thoroughfares that intersect the avenue, as well as scores on other streets, such as Spring Garden, Callowhill, Vine, Race and Arch.

* * *

A FEW small shops, factories and business houses may ultimately be forced to remove, although discretionary power is placed in the hands of the Fairmount Park Commissioners to grant them temporary occupancy permits until the avenue is finished. What the law will do eventually, however, is to clear the avenue from all objectionable shops, to prevent it from being lined with gasoline stations and garages cigar shops and the heterogeneous collection of commercial activities on a small scale that frequently mar and retard the development of new thoroughfares.

The ordinance is the first of the kind to be applied in Philadelphia and it represents a well considered effort to recover the ground loss by the repeal of the two hundred feet excess condemnation act which was repealed as a result of the litigation over the erection of the Bell Telephone Building. Since then however there has been a change in both public thought and the law as regards the protection of highways which occupy an individual relationship to the entire city and that are more than mere thoroughfares. Zoning and height, use and occupancy restrictions have been meeting with increasing favor. It is not unlikely that some property owners affected by the ordinance may be inclined to question its terms and powers, but if it is enforced in the spirit in which

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it is drafted, it will go far toward developing and preserving the city's twenty-million dollar show street in the full sense of its name, as a spacious and beautiful park-way.

* * *

HOW, with the authority vested in it under this ordinance, the Art Jury can be expected to approve a structure "of glass and steel" for a place on the Parkway we are at some loss to imagine. Certainly the Mayor's views, if he is correctly quoted in these remarks, are at absolute variance with the spirit of the ordinance just signed by him. An Art Jury that in the present era of general enlightenment would approve a Convention Hall "of steel and glass" would be unworthy of its name and a

travesty on artistic intelligence. The new Convention Hall can be made quite as commodious as demands require without necessarily stripping its design of all vestige of architectural grace. We are totally out of sympathy with the view expressed by Mr. Duffield and others that "utility is the dominant consideration." The example that shall be set by the city in its own buildings upon the new Parkway, will determine to a great extent the character of that boulevard. If the city sets the example of cheap, box-like structures private owners may not be blamed for following suit and in the end that upon which millions of dollars were expended will become not a thing of beauty, but an eye-sore and a source of public humiliation.

EDITORIAL NOTES

Mill shipments of steel shapes are now being quoted at 3.569c. to 4.169c. for delivery in two to five months. The delivery problem is still one of the chief difficulties of the steel industry, and a return to normal transportation conditions will be of great benefit. The records of the Bridge Builders and Structural Society show that during the month of February, 1917, fifty-nine per cent. of the entire capacity of the bridge and structural shops of the country was contracted for.

* * *

Spencer Heating Co., Hartford, Conn., announces the removal of its Philadelphia branch to more spacious quarters in the Otis Building, at Sixteenth and Sansom streets. M. C. Gillette is manager.

* * *

Secretary of War Baker, in a decision made public regarding bridges over the Allegheny River at Pittsburgh, holds that the immediate elevation and relocation of the piers of the bridges is necessary in the national interest. The bridges are held to be unreasonable obstruction to navigation on the Allegheny River. The Secretary said their improvement should be undertaken in such a way as to inconvenience the people of Pittsburgh as little as possible.

* * *

N. & G. Taylor Co., Philadelphia, Pa., manufacturers of tin plate of all kinds, has been incorporated under the laws of Maryland as the N. & G. Taylor Co., Inc. The following officers have been elected: President, Hollinshead N. Taylor; vice-president, William W. Justice, Jr.; secretary-treasurer, L. Leslie Helmer. The company has been in business 107 years, always under control of the same family. The plant is located at Cumberland, Md., where extensions are now being made to increase the output.

* * *

Warren Webster & Co., Camden, N. J., announce the appointment of Eugene P. Bradley

and Thomas J. Hester as St. Louis district managers of the company. A branch office will be maintained in the name of Warren Webster & Co., at 1212 Chemical Building, St. Louis. The announcement contains views of some of the more important buildings in St. Louis equipped with the Webster vacuum system of steam heating, including the St. Louis Cathedral, Missouri Botanical Gardens, Missouri State Capitol, Hotel Statler and Railway Exchange Building.

* * *

Vapor-Vacuum Heating Co., Philadelphia, Pa., manufacturers of the Kriebel system of vapor-vacuum heating, announces that it is now located in its new home in the Otis Building, at Sixteenth and Sansom streets. This building is equipped with the Kriebel system, supplying 9,178 square feet of radiation.

* * *

A decision which, to a great extent, removed objections of employers against employing partially disabled men has just been announced by the State Workmen's Compensation Board in the case of John Klein against the Oliver Iron and Steel Company. Klein, who lost the sight of one eye several years ago, injured the other eye recently and became blind. The Board decided that Klein should receive compensation only for the loss of the second eye, and not for total disability. Heretofore, employers have hesitated to employ men with one eye, one leg or one arm, for fear that injury to such men would render the employers liable to compensation covering total disability.

* * *

Vapor Heating Co., Philadelphia, Pa., manufacturers of the Broomell system of vapor heating, announces that, owing to the great increase in its business and to facilitate the work of its service bureau, which is a feature of the Broomell system, the company has moved its general offices from Philadelphia to York, Pa. Under this new arrangement

the manufacture, shipping and accounting departments will be under the direct personal supervision of A. P. Broomell, president, and William H. Koller, secretary. This will leave the local offices free to devote their entire attention to the engineering and installation work, and to give attention to the calls on the service bureau. Charles E. Scott, for the past ten years manager of the company's New York office, has been appointed general manager of the company, with headquarters in New York. He will retain direct personal supervision over the New York office. Charles F. Mau has been appointed local manager of the New York office, and E. M. Barker, who has been connected with the company since its inception as chief engineer, has been appointed local manager of the Philadelphia office. J. J. McKenna and J. Glassey are associated with Mr. Barker in the Philadelphia office. R. W. Farmer remains as local manager of the Boston office. The company is at work on a new catalogue which will soon be ready.

* * *

Veto of the Eyre Senate bill permitting County Commissioners to let contracts for bridge work involving less than \$500 without advertising for bids was announced by Governor Brumbaugh. In vetoing the Eyre bill the Governor says the act it seeks to amend permits such work to be done without advertising only when it involves less than \$250, and comments:

"The trend of all modern accounting of public money and the expenditure of the same is unmistakably to a more detailed and more open treatment of public expenditures. The consensuses of opinion is to let the people know. When more than \$250 of county funds is to be expended it is well that competitive bids be received and the people given full knowledge of the transaction. This can work no injustice and do no harm. The absence of such public statement of the transaction might work harm. It is well to be on the safe side of the proposition. The law now works no hardship known to the executive. It is in harmony with the best principles of popular government."

* * *

Reports from New York City indicate that the builders of that city are not retreating before the high prices of labor and material. Plans filed for January and February show a volume of work larger than that of a year ago. The total estimated outlay is \$24,040,000, against \$22,495,000 in 1916.

* * *

The conditions in the cement market are very satisfactory, with a healthy demand and a promising outlook for new business. Portland cement prices are holding steadily at \$1.97 to \$2.07, but there is every possibility that these prices will be advanced at an early date. The freight congestion has been the most serious problem that the cement industry has had to contend with and has interfered greatly with the shipment of the product from the mills. The expected advance in the price of Portland cement will be directly traceable

to the increased cost of production. Fuel is scarce and high in price and is one of the most important factors in cement manufacture. The labor scarcity is another element of trouble and there is very little prospect that this condition will be adjusted for some time.

The principal problem that is now confronting the architectural and building fraternity is that of educating the investor and prospective builder up to a point of realization that high material prices are here to stay at least for some years, and that there is absolutely nothing to be gained by further holding off for a recession. Architects and builders who are in close touch with the manufacturers and jobbers in the structural material lines have learned the reasons for the present price levels, that they are not inflated and kept high by speculators endeavoring to crowd the market for the last cent, but are the result of excessively high manufacturing costs, augmented by the intolerable freight situation and labor difficulties.

There are prospects that the latter conditions will be improved during the next few months, but the manufacturing costs will continue to be high by virtue of the shortage of fuel and advanced prices of raw materials. The dissemination of this information to prospective builders becomes the part of the architect and the contractor. Their clients depend upon them largely for advice as to type of structure to be erected and the materials to be used in construction and there is every reason to suppose that they would become an important factor in influencing individuals and concerns contemplating the erection of new structures, but who are holding off pending a downward revision of commodity prices, to see the folly of further delay. The advantage is now with the builder who starts construction

at an early date, as the consensus of opinion is to the effect that there can be no reduction for a long time. The demand for space in both commercial and residential buildings is still in excess of the supply, and the investor that decides to begin operations along these lines, notwithstanding the present costs, will be able to command the best rentals and most favorable opportunities for disposing of improved properties to advantage.

Hercules Cement Corporation, of Philadelphia, Pa., with mill at Stockertown, Pa., has taken offices at 30 East Forty-second street, New York City, as headquarters for its sales department. E. B. Goode, Jr., for the last four years Metropolitan District sales manager for the Lehigh Portland Cement Company, has been appointed sales manager of the concern and will take up the duties of the office at once. Mr. Goode will immediately commence the work of organization and will be established April 1.

Benjamin F. Wood, who for sixteen years has been electrical engineer with the Pennsylvania Railroad, and for the past three years has served as vice-president and chief engineer of the United Gas and Electric Engineering Corporation, has opened an office in the Woolworth Building, New York, for general consulting practice. He has organized the B. F. Wood Engineers, Inc.

American Institute of Consulting Engineers, Inc., of New York, at its annual meeting elected the following members of the Council to fill the places of retiring members: A. M. Hunt, Lewis B. Stilwell, William J. Wilgus, Gardner S. Williams. The following officers were chosen for the coming year: George Gibbs, president; Lewis B. Stilwell, vice-president; F. A. Molitor, secretary and treasurer.

combine the desirability of a general contract plan and the plan of sub-letting every part of the work directly from the architect's office. Sub-letting directly from the architect's office is theoretically economical, as it eliminates the percentage of profit to the general contractor on these sub-estimates, but it must be borne in mind that the building business is a science in itself requiring long practice and experience, and few are the architects' offices so equipped as to perform this function advantageously.

Steps in the direction of sub-letting have been made for some time in segregating from the general contract many items, such as heating and ventilation, plumbing, electric wiring, elevators, etc., leaving the balance of the work to be cared for by a general contractor, and thus obtain that flux which is necessary to proper building procedure, but under this plan these parts segregated from the general contract and sub-let directly by the architect are usually the very works which the general contractor alleges are the causes of all delays and difficulties which may arise in his own work.

The question is, why should not the general contractor sub-let everything on a competitive basis and not personally enter the field for any part of the trade, such as mason work or carpenter work in connection with the entire work which is to be entrusted to his supervision? If the general contractor sub-lets every portion of the work he should be raised to a purely professional sphere and would not have to hold the double function of a purely professional service and a commercial one as being a direct contractor for any part of the entire work.—"New Jersey State Journal of Architecture."

SOME PHASES OF GENERAL CONTRACTING.

By Stockton B. Colt.

General contractors submitting estimates for the entire work of erecting a building obtain competitive estimates on the various parts of the work from various sub-contractors, either preferred or approved as the case may be, the aggregate of which sub-estimates, together with certain other estimates furnished by the general contractor, plus the total profits to the general contractor, forms the general contractor's estimate for the entire work. It appears very often that general contractors are also masons and carpenters, or both; accordingly, they do not obtain competitive estimates on these items of the work. For example, the schedule of charges usually required by the architect from the general contractor upon the signing of the contract sets forth the various parts of the work sub-contracted for and their prices plus their commission to the general contractor. The amount

of the work sublet is in the neighborhood of say 70 per cent. of the entire work, and the balance, or 30 per cent., is that part of the work furnished direct by the general contractors without competition.

If it is desirable to engage a general contractor to supervise the entire work and see to the proper building sequence of the various trades so that all work shall fit and agree and be carried forward harmoniously, efficiently and with dispatch, then why not have him in a professional capacity of supervisor only, with adequate remuneration for his valuable services as such, and have competitive estimates on all the items entering into the make-up of the building, including the mason work, carpenter work, and the like? Each sub-contract could be made directly between the sub-contractor and the owner, the requisitions for payment on the various subcontracts might come through the general contractor in the form of a certificate, which to become valid for payment, would have to be countersigned by the architect. Such a plan might

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage, Kitchens lane, Germantown. Architects, Bunting & Shrigley, 603 Chestnut st., Philadelphia. Owner, Chas. F. Jenkins, Seventh and Washington Square, Philadelphia. Stone, 1½ stories, 28x44 feet, shingle roof, hot water heating, electric lighting, cement floors (electric work reserved). Architects taking revised bids, due April 24. Wm. C. Wright, 22 Harvey street, Germantown, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Hospital, Tulip street and Allegheny avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Northeastern Hospital of Phila., 2350 E. Allegheny avenue. Brick and reinforced concrete, stone trimmings, 2 stories, 101x41 feet, and 1 story, 31x31 feet, slag roof, terrazzo, cement and pine floors, metal lath, rolled steel sash, hollow tile, metal skylights, fire doors and tin clad and kalamein doors, tile and marble work (heating, electric work and (1) elevator reserved). Architects have received bids.

Ice House (add.), Seventeenth and Junata streets, Philadelphia. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and concrete, 2 stories, 16x48 feet, slag roof, cement, wood and slate floors. Owners have received bids.

Residences (9), north side of Luzerne street, between Ninth and Tenth streets. Architect, Private plans. Owner, Francis B. J. Brangan, 4031 North Ninth street. Brick, 2 stories, 15x36 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Owners ready for sub-bids.

Garage, Wynnewood road, Overbrook, Pa. Architect, P. M. Colon, 3133 W. Norris street, Philadelphia. Owner, Walter R. Sparks, Merion, Pa. Hollow tile and plaster, 1 story, 16x18 feet, asbestos shingle roof, cement floors, electric lighting. Plans completed. Owner ready for bids.

Residence (alt. and add.) and Garage, southwest corner Forty-eighth and Chester avenue. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, name withheld. Stone, residence, 1 story addition, 16x14 feet; garage, 2 stories, 20x26 feet, slate roof, steam heating, electric lighting, tile work, hardwood and cement floors, vented drains (gasoline storage system reserved). Plans in progress. Architects ready for bids in one week.

Garage, 1530-32 North Twenty-seventh st., Philadelphia. Architect, private plans. Owner, name withheld. Brick, steel and terra cotta, 1 story, 36x76 feet, slag roof, cement floors (plumbing, heating, electric work and gasoline storage system reserved), hollow metal skylights. Owners have received bids.

Garage, Broad street and Oak Lane avenue, Oak Lane, Philadelphia. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Reuben Windisch, on premises. Frame and shingle, 1½ stories, 22x30 feet,

shingle roof, cement floors, gas heating, electric lighting, gasoline storage system. Architect has received bids.

Stores and Residences (4), Sixtieth and Larchwood avenue, Philadelphia. Architect, H. E. De Hoff, 48 South Sixtieth street, Philadelphia. Owner, Henry Gelb, 442 South Sixtieth street, Philadelphia. Brick, (1) 3 stories and (3) 2 stories, 16x20x50 feet, slag roof, hot water heating, electric lighting, tile work, metal bulks. Owner is ready for sub-bids.

Apartment House, 3210-16 Green street, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, name withheld. Stone, brick, steel and terra cotta. Plans in progress. Too early for details.

Residence, Forty-seventh and Wyalusing Philadelphia. Architect, Jas. C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, Joseph A. Barkley, 453 Parrish street, Philadelphia. Brick, 2 stories, 116x42 feet, slag roof, pine floors, hot water heating, electric lighting. Owner has received bids.

Stores (3) and Garage Building, 1929-35 N. Franklin street, Philadelphia. Architect, Frederick T. Uozzell, 147 North Third street, Philadelphia. Owner, Dr. C. J. Schneider, 1930 N. Seventh street, Philadelphia. Brick and Stone, 2 stories, 110x65 feet, slag roof, (steam heating, electric lighting and plumbing reserved), metal skylights, ventilators, metal store fronts, rolling steel doors, gasoline storage system, air pump. Architect taking bids, due April 5th at 3 P. M. Harry Brocklehurst, 512 W. Norris street; Harry Gill, Jr., 2515 Germantown avenue; John R. Wiggins & Co., Otis Building; James H. Wells, Otis Building; Alex. Chambley, 243 South Tenth street, and A. R. Raff Const. Co., 1635 Thompson street, Philadelphia, are figuring.

Warehouse, 12 South Sixth street, Philadelphia. Architects, E. P. Drang & Son, 1230 Locust street, Philadelphia. Owners, Megargee-Hare Paper Co., on premises. Brick, 6 stories, 40x72 feet, slag roof (heating, plumbing and lighting reserved), cement floors, hollow tile, rolled steel sash and skylights, fire and kalamein doors, fire escapes, ornamental iron work (elevator reserved). Architects have received bids.

Residence (alt. and add.), 908 South Fifth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Dr. A. Cohen, on premises. Brick, 2 stories, general interior alterations, hot air heating, hardwood floors, slag roof, cement work, modern plumbing, leaded glass. Owner will take bids in one week.

Saloon and Hotel (alt. and add.), 116 South Fifteenth street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Margaret A. Kernan, northeast corner Fifteenth and Filbert streets. Brick, 2 stories, 18x62 feet, slag roof, pine and cement floors (plumbing, steam heating,

electric work reserved), tile and marble work, metal lath. Plans completed. Architect ready for bids.

Stores and Dwellings (2), Fitzwater and Marshall streets, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, C. L. Villotti, 633 Fitzwater street, Philadelphia. Brick, 2 stories, 20x62 feet, slag roof, hot water heating, electric lighting, tile work. Plans completed. Architect ready for bids in a few days.

Residences (23), Crewson street, below Chew street, Germantown. Architect, private plans. Owner, Geo. W. Carson, Locust avenue, below Chew street, Germantown. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, combination lighting, hardwood floors, tile work. Owner taking sub-bids.

Factory, 1021-25 South Ninth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Luigi Verna, on premises. Brick and steel, 3 stories and basement, 32x57 feet and 40x48 feet, slag roof, steam heating, electric lighting, metal lath, dampproofing, fire doors, maple floors, metal skylights. Owners taking bids, due April 1st. (Note extension.) Edw. Fay & Son, 2 S. Mole street, and M. Gittalo, 834 Dickinson street, are figuring, in addition to those previously reported.

Bridges (4), Philadelphia. Engineer, Jonathan Jones, room 532, City Hall, Philadelphia. Owners, City of Philadelphia, Dept. of Public Works, Geo. E. Datesman, director, City Hall, Philadelphia. Steel, reinforced concrete, timber, asphalt paving. Low bidders: Fifth street, over Richmond Branch of P. & R., Monaghan & Lossee, Inc., 3016 Chestnut street, \$21,500; Ashburner street, over Phila. & Trenton RR., John McMenamy, 512 Walnut street, \$136,857; Linden avenue, over Phila. & Trenton RR., John McMenamy, 512 Walnut street, \$105,499; Harvey street, under P. & R. N. Branch of P. & R., no bids.

Factory, Twelfth and Buttonwood and Hamilton streets, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owners, E. Weber & Co., 1125 Chestnut street, Philadelphia. Brick (slow burning), 5 stories and basement, 42x150 feet, slag roof, steam heating, electric lighting, maple and cement floors, hollow metal sash, fire doors and kalamein doors, hollow metal skylights, hollow tile, metal lath, (1) elevator, safety trends, metal window guards, waterproofing. Plans about completed. Architect ready for sub-bids April 24.

Bakery (alt. and add.), 510 Bainbridge st. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Caplan & Sayer, 517 Bainbridge street, Philadelphia. Brick, 3 stories, 16x78 feet, slag roof, hot water heating, electric lighting, pine floors. Plans completed. Owners will take bids.

Rectory, Fifth street, south of Lancaster avenue, \$5,000. Architect, Paul Monaghan,

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Drexel Building, Philadelphia. Owner, Rev. Victor Strumia, 929 Greenwich street, Philadelphia. Stone and brick, 2½ stories, 22x45 feet (heating reserved), slag roof, electric lighting, piers floors. Plans in progress. Architect ready for bids in a week.

Passenger Station (alt. and add.), Cheltenham, Philadelphia, \$35,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Consists of new concrete platforms, steel and timber shelter sheds, slate roofs, stairways and elevator lift. Owners have received bids.

Shop and Studio (alt.), 1524 Locust street, Philadelphia, \$5,000. Architect, C. Wharton Churchman, 1525 Locust street, Philadelphia. Owner, Leroy Hemingway, 1615 Walnut street, Philadelphia. Brick, 3 stories, consists of interior alterations (plumbing, heating, electric work and decorating reserved), hardwood floors, tile and marble work, metal lath. Plans about completed. Architect ready for bids in a few days.

Residences (23), Sixty-second and Osage avenue, Philadelphia. Architect, J. Elvin Jackson, 727 Walnut street, Philadelphia. Owners, Bobb & Sosnow, 720 North Seventh street, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hot water heating, hardwood floors, electric lighting, tapestry bricks, tile work. Owners taking sub-bids.

Store (alt.), 1019 Chestnut street, Philadelphia. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, name withheld. Consists of interior alteration to first floor, plumbing, electric lighting, parquet and composition floors, cabinet work, decorating. Plans about completed. Architect will take sub-bids in a few days.

Store and Dwelling, 308 South Fifth street, Philadelphia, \$7,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Mogul & Woldow, 329 South Fifth street, Philadelphia. Brick, 3 stories, 18x70 feet, slag roof, hot water heating, electric lighting, tile work, pine floors. Plans about completed. Owners will take sub-bids.

Garage and Manufacturing Building, Bridgesburg, Philadelphia. Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford. Owners, Charles Lennig & Co., Inc., 112 South Front street, Philadelphia. Brick, hollow tile and plaster, 1 story, 65x35 feet and 60x200 feet (heating, electric work, plumbing and gasoline storage system reserved), slag roof, cement floors, metal lath, rolled steel sash and hollow metal windows. Architect taking bids. Due March 30th. Henry P. Schneider, 3713 Old York road; Rush Bros., 1104 Arrott street, Frankford, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Storage Building, 1811-13 South Front st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, A. Kavalsky & Son, on premises. Brick, 2 stories, 32x96 feet, slag roof, electric lighting, yellow pine floors, 1 elevator. Plans in progress.

Residences (60), Tenth and Courtland sts., Philadelphia. Architect, private plans. Owner, Frank D. Williams, 3532 North Bouvier street, Philadelphia. Brick, 2 stories, (15) 16x50 feet and (45) 16x40 feet, slag roof, hot water heating, combination lighting, tile work, hardwood floors. Owner ready for sub-bids.

Residences (41), Chester avenue, between Sixtieth and Sixty-first streets. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, James Egan, 4146 Leidy avenue, Philadelphia. Brick, 2 stories, 16x57 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Architect taking sub-bids.

Store and Residence, 3621 Woodland avenue, Philadelphia. Architect, private plans. Owners, Edward P. Dolbey & Co., 3613 Woodland avenue, Philadelphia. Brick, 3 stories, 18x68 feet, slag roof, oak and maple floors, hot water heating, electric lighting, elevators, damp-proofing and wire work. Owners taking bids, due March 31st. Wm. R. Dougherty, 1610 Sansom street, and F. B. Wallace, 1220 Chancellor street, are figuring.

Construction and Repairs, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, Bureau of Surveys, George E. Datesman, Director, Room 534 City Hall, Philadelphia. Consists of reinforced concrete grit chambers with inlet and outlet sewers, machinery and equipment, electric wiring and fixtures, plumbing, heating and ventilating. Owners taking bids, due April 10th at noon.

Dormitory Buildings (2), Refectory and Boiler House, Byberry, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Health and Charities, Dr. Wilmer Krusen, Director, Room 584, City Hall, Philadelphia. Brick, steel and hollow tile, stone and terra cotta trim, 2 stories and basement, 200x28 feet and 37x43 feet; refectionary building, 1 story and basement, 109x44 feet, 37x62 feet and 2 wings 35x13 feet and 1 story, 43x36 feet, 34x18 feet and 15x17 feet, slate and slag roofs, asphalt, cement and pine floors, metal lath, waterproofing and damp-proofing, hollow metal doors, safety treads, metal window guards, 1 elevator, metal lockers, metal weather strips, enameled brick, terrazzo work (plumbing, steam heating and elec-

tric work separate bids). Lowest bidders, Charles McCaul Co., 1713 Sansom street, \$332,846; H. E. Baton, Twelfth and Sansom sts., \$347,000.

Turntable, Tulip and Emerald streets, Philadelphia. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Reading Terminal, Philadelphia. Reinforced concrete and steel, consists of 100-foot turntable. Low bidders, James McGraw Co., Commercial Trust Building, substructure; American Bridge Co., Widener Building, superstructure.

Loft Building, southwest corner of Broad and Brown streets, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, R. A. Heymann & Bro., Widener Building, Philadelphia. Reinforced concrete, brick and stone, 5 stories, 40x100 feet, slag roof (plumbing, steam heating, electric work, 1 elevator reserved), cement and tile floors, tile and marble work, metal lath, roof ventilators. Plans in progress. Architect will take bids in two weeks.

Garage, Fifth street, north of Fisher's avenue, Philadelphia. Architect, private plans. Owner, Mrs. Dora Mulligan, 157 South Texas avenue, Atlantic City, N. J. Brick, steel or concrete, 1 story, 75x150 feet, slag roof, steam heating, electric lighting, cement floors, gasoline storage system. Owner ready for bids.

Machine and Electrical Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Washington, D. C. Reinforced concrete, hollow tile and steel, 4 stories, 130x325 feet or 130x675 feet, slag roof, pine floors, rolled steel sash, fire doors (plumbing, heating, electric work separate bids), rolling steel shutters. Owners taking bids, due April 2nd (note correction). Warren Moore & Co., Commercial Trust Building; F. W. Mark Const. Co., Finance Building; H. H. Wehneyer, 1004 Lehigh avenue; Thomas Reilly, 1616 Thompson street, Philadelphia, are figuring, in addition to those previously reported.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, southeast corner Fifty-sixth and Baltimore avenue, Philadelphia, \$12,000. Architect, private plans. Owner, S. I. Stein, Liberty Building. Brick, 1 story, 80x100 feet, slag roof, cement floors. Contract awarded to Augustus Hartman, 2245 Hunting Park avenue.

Residence (alt.), 2001 Delancey street, Philadelphia. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owners, Phila. Trust Co., 413 Chestnut street, Philadelphia. Brick, marble trimmings, 3 stories, consists of general interior alterations and new front. Contract awarded to Joseph Price, 2048 Ritzenhouse street.

Artillery Case Shop and Instrument Department Building (adds.), Frankford Arsenal, Philadelphia, \$85,000. Architect, private plans. Owners, U. S. Govt., Col. Geo. Montgomery, Frankford Arsenal. Brick, concrete,

steel, stone trimmings, 1 and 2 stories, 199x49 and 4 stories, 63x29 feet, maple floors, hollow tile, (1) elevator, rolled steel sash, waterproofing, safety treads, metal window guards (heating and lighting reserved). Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Service Building, 804 North Broad street, Philadelphia, \$13,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Levick & Woldow, 1329 South Seventh street, Philadelphia. Brick and terra cotta, 3 stories, 20x160 feet, slag roof, cement and plank floors, tile work (plumbing, heating and electric work reserved). Contract awarded to Philip Savar, 718 Snyder avenue, Philadelphia. **Sunday School (alt. and add.)**, Thirty-third and Wharton streets, \$1,080. Architects, Charles W. Bolton & Sons, Witherspoon Building. Owners, Hope Presbyterian Church, care

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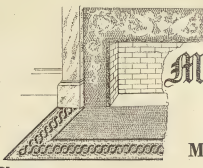


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Philadelphia, \$450,000. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Strawbridge & Clothier, Eighth and Market streets, Philadelphia. Reinforced concrete and steel, 8 stories, 101x234 feet, reinforced concrete and slag roof, reinforced concrete floors, metal lath, rolled steel

sash, fire doors, ventilators, sprinklers, safety treads, tile and marble work, 5 elevators, rolling steel shutters, mezzanine floors, chimney 75 feet high, radial brick. Contract awarded to Irwin & Leighton, 126 North Twelfth st., Philadelphia.

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of Rev. J. G. Bolton, on premises. Consists of platform and anterooms, plastering, pine floors. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Garage, Germantown, Philadelphia. Architects, Duhring, Okie & Ziegler, Bailey Building, Philadelphia. Owner, Wm. R. Eisenhower, Upsal street, west of Wayne avenue, Germantown. Stone, 2 stories, 28x28 feet, shingle roof, hot water heating, electric lighting, cement and pine floors, metal lath, waterproofing, wire work. Contract awarded to W. John Stevens, Inc., Wynecote, Pa.

Residence (alt. and add.), Prospect avenue and New street, Chestnut Hill. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Dr. Wm. H. Jefferys, 100 West Walnut Lane, Germantown. Brick and plaster, 2½ stories, add. 2 stories, 40x35 feet, tin roof, plumbing, metal lath, tile work, pine and cement floors (hot air heating and electric work reserved). Contract awarded to Stokes Bros., 6723 Musgrave street, Philadelphia.

Loft Building, Ninth and Poplar streets,

School and Auditorium, Sharon Hill, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Holy Spirit Parochial School, care of Rev. Jos. P. Monville, on premises. Brick, steel and concrete, stone trimmings, 2 stories and basement, 125x335 feet and 45x17 feet, slag roof, cement, maple and pine floors, metal lath, waterproofing and jump-proofing (heating and electric work reserved). Architect taking revised bids, due March 30th at 4 P. M. Wm. R. Dougherty, 1610 Sansom street; John McShain, 1610 North street; Daniel V. Sullivan, 622 South Conestoga street; Melody & Keating, 1322 Race street; Sutton & Stephenson, 1317 Washington avenue; Monaghan & Losse, Inc., 3016 Chestnut street; Ketcham & McQuade, 1029 Brown street, and Doyle & Co., 1509 Sansom street, Philadelphia, are figuring.

Residence (alt. and add.), Lansdowne, Pa., \$3,000. Architect, private plans. Owner, W. A. McEwen, Lansdowne, Pa. Brick, 4 stories, porch addition and interior alterations, plumbing, electric lighting, tile work. Wm. Henderson & Son, 327 South Twentieth street, taking sub-bids, due in one week.

School Building, Fountain Hill, South Bethlehem, Pa. Architect, E. H. Biting, Wilbur Trust Building, South Bethlehem, Pa. Owners, School Board of South Bethlehem, South Bethlehem, Pa. Howard Judd, secretary, South Bethlehem, Pa. Brick, 2 stories, 80x48 feet, slag roof (steam heating, electric work plumbing and ventilating reserved), maple floors. Owners have received bids.

Storage and Loading Sheds, Wayne Junction, Pa. Architect, Kern Dodge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets. Timber and corrugated iron, 1 story, 50x60 feet, slag roof, plank floors. Engineer has received bids.

Dormitory Buildings, Swarthmore, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Mary Lyon School, Swarthmore, Pa. Stone and brick, slate roof (steam heating, plumbing and

electric work reserved), oak and cement floors, metal lath, leaded glass, fire doors. Architect taking bids, due March 30th. H. H. Burrell, 206 South Quince street; F. A. Havens & Co., 845 North Nineteenth street; Warren-Moore & Co., Commercial Trust Building; Chas. McCaul Co., 1713 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine st.; Frank G. Stewart, 1619 Sansom street; Metzger & Fisher, Deneka Building; Irwin & Leighton, 126 North Twelfth street; R. C. Ballinger & Co., 218 North Thirteenth street; Jacob Myers & Sons Co., Witherspoon Building, and Flounders Bros, Media, Pa.; Jas. H. Wells, Otis Building, are figuring.

Residence and Garage, Langhorne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, name withheld. Hollow tile and stucco, 2½ stories, 30 x30 feet; garage, 1½ stories, 21x24 feet, slate roof, warm air heating, electric lighting, hardwood floors, hollow tile. Plans about completed. Architects will take bids in one week.

Sanitorium (alt. and add.), Chestnut Hill, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Bella Vista Sanitorium, care of Dr. H. L. Randall, on premises. Stone and brick, or hollow tile and plaster, 2 stories and basement, addition 44x61 feet (plumbing, heating, lighting fixtures and interior decorating reserved), slate, asbestos and shingle roof, cement and pine floors, electric lighting, metal window guards. Architect has received revised bids.

Residence, Rose Valley, Pa. Architects, Martin & Irpatrick, 130 South Fifteenth st., Philadelphia. Owner, C. Y. Abbott, Gladstone Apartments, Philadelphia. Brick, hollow tile and plaster, 2½ stories, 72x24 feet, wing 24 x16 feet, tile and shingle roof, oak floors, electric lighting, metal lath, weatherstrips, tile work (heating and plumbing reserved). Architect taking bids, due April 4th, Eugene Tourison, 1001 Chestnut street; R. C. Ballinger & Co., 218 North Thirteenth street; Wm. J. Gruher & Co., 219 E. High street; W. Harry Roberts, Oakmont, Pa.; and Herbert

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Walton, Moylan, Pa., are figuring.

School, Turtle Creek, near Pittsburgh, Pa. Architect, Geo. H. Schwann, 307 Fourth avenue, Pittsburgh, Pa. Owners, Board of Education, Turtle Creek, Pa. Brick and steel, stone trimmings, 3 stories, 200x300 feet, composition roof, cement and pine floors, metal lath (plumbing, heating and electric work reserved). Owners taking bids, due April 3d. Thos. Reilly, 1616 Thompson street, Philadelphia, is figuring.

School (add.), Ninth street and Highland avenue, Chester, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, R. C. Church of the Resurrection, care of Rev. A. L. Ganster, Ninth and Highland avenue, Chester, Pa. Brick, stone and terra cotta, 2 stories, 72x119 feet, slag roof, cement and pine floors, hollow tile and metal lath, hollow metal sash, fire and kalamein doors, roof ventilators, metal window guards, waterproofing and dampproofing (heating and lighting reserved). Architect taking bids, due March 28th. Wills-Ludwick, 34 South Seventeenth street; Wm. J. McShane, 417 South Thirteenth street, and Melody & Keating, 1322 Race street, Philadelphia, are figuring.

Residence (alt. and add.), Newtown, Pa., \$30,000. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Alexander Chambers, Newtown, Pa. Stone, hollow tile and plaster, 2½ stories, slate roof, hardwood floors, hot water heating, electric lighting, tile work, metal lath. Plans in progress.

Residence, Bryn Mawr, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Edward C. Dale, 1215 Spruce street, Philadelphia. Stone and hollow tile, 2½ stories, 124x42 feet and 49x32 feet, slate and slag roof, oak and cork tile floors, Gypsum block, hot water heating, electric lighting, tile and marble work, metal lath, (1) elevator, metal weatherstrips, damp-proofing. Builders, J. S. Cornell & Sons, Land Title Building, Philadelphia, have received sub-bids.

Residence (alt.), Old York road, Jenkintown, Pa. Architect, Lawrence Visscher Boyd, Harrison Building, Philadelphia. Owner, Watson F. Fuqua, Land Title Building. Stone (consists of exterior alterations), 2½ stories, slag and tin roof, plastering, mill work, quarry tile floors, ornamental iron work. Architect taking bids, due March 30th. H. H. Burrell, 206 S. Quince street; Wm. R. Dougherty, 1610 Sansom street; F. S. Davis, 240 North Sixteenth street; F. E. Wallace, 1220 Chancellor street; Henry Specht, Willow Grove, Pa., are figuring.

Twin Residences (2), Chambersburg, Pa. Architect, Andrew C. Borzner, 717 Walnut st., Philadelphia. Owner, Jacob G. Schaff, Chambersburg, Pa. Brick, hollow tile and plaster, 2 stories, 16x40 feet, flexible roof, pine floors, electric lighting, hot water heating, tile

work. Plans in progress. Owner will take bids in 10 days.

City Hall and Police Building (alt.), Chester, Pa. Architect, Clarence W. Brazer, 1133 Broadway, New York City. Owner, City of Chester, care of Jno. H. Mirkil, superintendent of Parks and Public Property, Chester, Pa. Brick, stone, steel and terra cotta, 2 stories, 80x36 feet and 35x22 feet, and 2 stories, 38x100 feet, slate roofs, tile, cement and pine floors, hollow tile, metal lath, tile and marble work, fire and kalamein doors, metal window guards (plumbing, steam heating, electric work separate bids). Owners taking bids, due April 16th. James B. Plouderers, 1329 Arch street, Philadelphia, is figuring.

Apartment House, Bethlehem, Pa., \$11,000. Architect, J. R. Wilt, 104 Fourth avenue, Bethlehem, Pa. Owner, F. J. Mitman, Bethlehem, Pa. Brick, 3 stories, 30x68 feet, Carey roof, pine floors, combination lighting. Plans in progress. Ready for bids in two weeks.

Residence, Bethlehem, Pa., \$5,500. Architect, J. R. Wilt, 104 Fourth avenue, Bethlehem, Pa. Owner, Mrs. Rose Pyeko, Bethlehem, Pa. Brick, frame and stucco, 26x30 feet, slate roof, hot water heating, combination lighting. Plans in progress. Ready for bids in two weeks.

Twin Residences, Bethlehem, Pa., \$7,000. Architect, J. R. Wilt, 104 Fourth avenue, Bethlehem, Pa. Owners, Mitman & Ziegenfuss, Bethlehem, Pa. Brick, hollow tile and plaster, 2½ stories, 30x46 feet, slate roof, hot water heating, combination lighting. Plans in progress. Ready for bids in two weeks.

Residences (6), South Tenth street, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, Knoblauch & McCullough, Reading, Pa. Brick, 2 stories, 15x54 feet, Mansville roof, hot air heating, combination heating, yellow pine floors. Plans in progress. Owners will take sub-bids.

Church (alt. and add.), Shenandoah, Pa. Architect, A. A. Richer, 21 North Sixth st., Reading, Pa. Owners, St. John's Evangelical Lutheran Church, Shenandoah, Pa. Brick veneer and stone trimmings, asbestos shingle roof, new tower. Architect taking bids, due March 31st. Gordon Nagle, Pottstown, Pa., and J. J. O'Hearn and Daniel Bachman, both of Shenandoah, Pa., are figuring.

Residence, Fleetwood, Pa. Architect, Clavin J. Young, 520 Washington street, Reading, Pa. Owner, Geo. Schlegel, Fleetwood, Pa. Brick, 2½ stories, 48x30 feet, slate roof, hot water heating, combination lighting, hardwood and yellow pine floors. Plans completed. Owner ready for bids.

Factory (add.), Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, F. Knoll, Reading, Pa. Brick, steel and frame, 3 stories, 75x30 feet, Carey roof, (heating not decided), concrete floors, electric lighting, elevators, roof ventilators. Plans in progress. Owners will take sub-bids.

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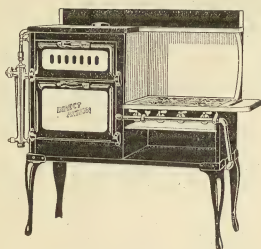
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Factory, Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, name withheld. Brick, 4 stories, 100x53 feet. Preliminary plans in progress.

Joiner Shop, Chester, Pa. Architect, private plans. Owners, Sun Ship Building Co., Finance Building, Philadelphia. Brick and hollow tile, 2 stories, 50x200 feet, tile roof, (electric work and heating reserved), iron stairs, cement floors. Owners has received bids.

Residences (6), Glenwood avenue, Alden, Pa., \$24,000. Architect, private plans. Owners, Phila. Realty Co., West Collingswood, N. J. Frame and stucco, 2 stories (8 rooms), shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress. Owners ready for sub-bids in two weeks. Plans can be seen at West Collingswood, N. J., and at 121 W. Durham street, Chestnut Hill, Pa.

Farm House (alt. and add.), Chester Springs, Chester County, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Howard S. Rue, 46 N. Fourth street, Philadelphia. Stone, 2½ stories, addition, 20x20 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans nearly completed. Architect ready for bids in a few days.

Residence, Southampton, Pa. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Wm. B. Slatko, care of architect. Stone and frame, 3 stories, 35x48 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architect has received bids.

Residence and Garage, Reading, Pa. Architect, Robert A. Stair, York, Pa. Owner, Mrs. Nellie O. Baer, Reading, Pa. Stone, residence, 3 stories; garage, 2 stories. Architect has received bids.

Orioles Home (add.), Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Fraternal Order of Orioles, on premises. Brick, 2 stories, 40x47 feet, tin roof, wood floors, electric lighting, heating not decided. Plans in progress.

Machine Shop (add.), 355 Penn street, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owners, Penn Cycle & Motor Co., on premises. Brick, 2 stories, 14x60 feet, slag roof, wood floors, steam heating, electric lighting. Plans in progress.

Bungalow, Bally, Pa. Architect, H. E. Hickman, 119 South Fifth street, Reading, Pa. Owner, August L. Arnold, Reading, Pa. Frame, 1 story, 40x25 feet, slag roof, wood floors, electric lighting. Plans in progress.

Residences (49), Bethlehem, Pa. Architect, private plans. Owners, Fernwood Park Realty Co., Bethlehem, Pa. Brick, 3 stories,

slag roof, hot air heating, electric lighting, wood floors. Jacob Engel, Allentown, Pa., taking sub-bids.

Office Building, Bethlehem, Pa. Architect, Geo. S. Walsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Weston Dodson Coal Co., Bethlehem, Pa. Steel frame construction, fireproof, 4 stories, 48x120 feet, slate roof, electric lighting, tile and marble work, (1) elevator, concrete floors. Plans about completed. Owners will take sub-bids on all lines.

House of Detention, Sixth and Lehigh sts., Easton, Pa. Architect, J. J. Weitzenfeld, First National Bank Building, Easton, Pa. Owners, County Commissioners of Northampton, Easton, Pa. Brick, 2½ stories, 29x45 feet, slate roof, vapor heating, electric lighting, metal lath, concrete and wood floors. Owners have received bids.

Boiler House, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Mechanical engineer, Louis Bloch, New York City. Owners, Arbogast & Bastain Co., Allentown, Pa. Brick, 1 story, 50x100 feet, slag roof, electric lighting. Owners taking sub-bids on all lines.

Store and Office Building, Third and New streets, South Bethlehem. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, Mrs. Anna Cacerly, South Bethlehem, Pa. Brick and hollow tile, (fireproof), 3 stories, 50x63 feet, slag roof, steam heating, electric lighting, maple floors, iron stairs. Plans in progress.

Residence, South Bethlehem, Pa., \$10,000. Architect, David Levy, Buckley Building, Allentown, Pa. Owner, name withheld. Brick or hollow tile and stucco, 2 stories and basement, 35x30 feet, wing 14x18 feet, (vacuum steam heating, plumbing, tile work and lighting fixtures reserved), hardwood floors, metal lath. Plans in progress.

Store Front (alt.), Allentown, Pa., \$2,800. Architect, David Levy, Buckley Building, Allentown, Pa. Owner, name withheld. Consists of new copper front, art glass, electric lighting, hardwood floors, tile and marble work. Plans in progress.

House and Store Building, South Bethlehem, Pa. Owner, Peter Cardes, South Bethlehem, Pa. Architect, 2½ stories, 37x53 feet, slate roof, yellow pine floors, electric lighting. Owner taking bids.

Garage, Fifth and Broad streets, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Allen Motor Co., Bethlehem, Pa. Brick, 1 story, 50x150 feet, slag roof, concrete floors, electric lighting. Owner taking bids. F. Snek, Bethlehem, Pa., and the Allentown Const. Co., Allentown, Pa., are figuring.

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Architect, Arthur S. Kepper, Pottstown, Pa. Owner, North American Motor Co., Pottstown, Pa. Brick and steel, 1 story, 302x73 feet, and 2 stories, 73x49 feet, slag roof, cement and pine floors, metal lath, waterproofing, metal lockers, (electric lighting and heating reserved). Architect has received bids.

Residences (8), Sharon Hill, Del. Co., Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Mrs. Maud M. Neel, care of architect. Brick, 2 stories, 20x30 feet, shingle roof (hot water heating, plumbing, tile work, electric work and cement walks reserved), pine floors, tile work, metal lath. Architect taking bids, due March 29th. F. B. Davis, 240 North Sixteenth street; and J. Paul Emrey, North Wynnefield, Philadelphia, are figuring in addition to those reported.

Private School, Bryn Mawr, Pa., \$20,000. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, O. M. Harcum, Montgomery avenue, Bryn Mawr, Pa. Stone, 3 stories and basement, 40x75 feet, slate roof, vapor heating, electric lighting, tile work, oak floors. Architect taking bids, due March 28th. John W. Brooks, Ardmore, Pa.; J. J. Graham & Son, Bryn Mawr, Pa.; Wm. H. Parham, Devon, Pa.; Ward-Yardley Co., 1737 Filbert street; Nickson-Duggan Const. Corp., 1218 Chestnut street; Metzger & Fisher, Denekla Building, Philadelphia, are figuring.

Residence, 420 N. Lehigh street, Allentown, \$25,000. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, J. L. Hoff man, Thirteenth and Linden streets, Allentown. Stone and brick, 2½ stories, 32x30 feet. Architect taking bids, due March 31st. Ritter & Smith, Adam Hertzog, Oscar P. Roth and W. A. Stein, all of Allentown, Pa., are figuring.

Bank, Palmerton, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Board of Directors, Bank, Palmerton, Pa. Brick and stucco, limestone or marble trimmings, 1 story, 38x70 feet, slag roof, vapor heating, electric lighting, tile and terrazzo work, tile or terrazzo floors. Architect will be ready for bids about April 1st.

Residence, Catasauqua, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Owen Fatzinger, Catasauqua, Pa. Frame, 2½ stories, 40x35 feet, shingle roof, hardwood floors, electric lighting, tile work. Owner taking bids.

Factory Building, Easton, Pa. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owners, Radium Cleaner Co., Easton, Pa. Brick and mill construction, 1 story, 75x150

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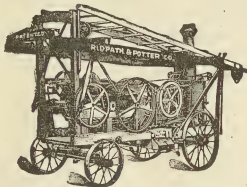
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feet, slag roof, steam heating, electric lighting, wood floors. Plans in progress.

School, Bethlehem, Pa., \$60,000. Architect, E. H. Bitting, Wilber Trust Building, Bethlehem, Pa. Owners, City of Bethlehem, Board of Education, Bethlehem. Brick, 2 stories, 200x50 feet, slag roof, maple floors (heating, reserved), electric lighting, tile work. Owners have received bids.

Isolated Ward, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owners, Children's Hospital, care of architect. Brick, 1 story and basement, slate roof, 6x60 feet, steam heating, electric lighting, yellow pine floors. Architect ready for bids.

Cottage, Mt. Pocono, Pa., \$20,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owner, C. A. Matcham, care of architect. Stone, 1½ stories, 80x33 feet, shingle or tile roof (lighting fixtures and heating (vapor) reserved), electric lighting, hardwood floors. Architects have received bids.

Silk Factory, West Copley, Pa. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown. Owners, Egypt Silk Mill Corp., Northampton, Pa. Hollow tile, 1 and 2 stories, 64x100 feet and 150x43 feet, composition roof (heating not decided), concrete and maple floors, electric lighting, rolled steel sash. Owner will take sub-bids.

Residence, Cynwyd, Pa. Architects, E. F. Durang & Son, 1220 Locust street, Philadelphia. Owners, Wm. L. Henderson, Narberth, Pa. Stone, 2½ stories, 40x32 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Plans in progress. Architects will take bids in two weeks.

Residence, Haverford, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner's name withheld. Stone or hollow tile and plaster, 2 stories, 30x94 feet, slate roof (electric wiring reserved), hot water heating, electric lighting, tile work, cement and pine floors, waterproofing. Architect taking bids, due March 30th. Graham-Campion Co., Otis Building; John E. Kearney, 327 North Sixty-third street, and Alfred James, Bals, Pa., are figuring.

Garage, Third street, Chester, Pa. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, A. Schwartz, care of architect. Brick and steel, 2 stories, 45x160 feet, slag roof (gasoline storage system reserved), steam heating, electric lighting, cement floors, 1 elevator, roof ventilators. Plans about to be started.

Residence and Garage, Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Architect, Wm. H. Steigerwalt, 1420 Chestnut street, Philadelphia. Stone, 2½ stories, 34x105 feet and 25x26 feet, shingle roof, oak floors, tile work (hot water heating, plumbing, electric work, cement walks, finished hardware reserved). Architects taking bids, due March 31st. Graham-Campion Co., Otis Building; Specht & Sperry, Heed Building; John E. Kearney, 327 North Sixty-third street; J. Howard Roberts, Lansdowne, Pa., are figuring.

Stores (6) and Apartments, Chester Pike and Springfield Road, Darby, Pa. Architects, Norman Hulme & John J. Dull, 1524 Chestnut street, Philadelphia. Owners, Dr. J. W. Harrison & A. Foster, Darby, Pa. Brick, terra cotta trim, 2 stories, 48x116 feet (heating reserved), tile roof, cement and poplar floors, hollow tile, electric lighting, marble work, metal ceilings, wire work. Architects taking bids, due April 6th. P. E. Davis, 240 North Sixteenth street; George & Bost, 277 South Eleventh street; Ketcham & McQuade, 1029 Brown street; H. E. Grau Co., 1709 Sansom street, Philadelphia; Arthur Machin Co. and Morris Golden, both of Chester, Pa.; Daniel P. Gotschall, Darby, Pa., and James Ingram, Lansdowne, Pa., are figuring.

Residence (alt. and add.), Bryn Mawr, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Stanley G. Flagg, Jr., Bryn Mawr, Pa. Brick, stone and stucco, 3 stories, slate roof, hot water heating, electric lighting, tile and marble work, hollow tile work, metal weather strips, wire work. Architect taking bids, due April 2nd. R. C. Ballinger & Co., 218 North Thirtieth street, and J. Myers & Sons Co., With-

erspoon Building, Philadelphia, are figuring.

Engine and Power House and Lunch Room (alt. and add.) and Coal Pockets, Rutherford, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Reading Terminal, Philadelphia. Concrete, stone, brick and steel, 1 story, 61x66 feet, 12x32 feet, 20x24 feet and 58x30 feet, slag and asbestos roof, concrete and pine floors (lighting reserved), fire doors. Owners taking bids, due March 2nd. Irwin & Leighton, 126 North Twelfth street; H. D. Baton, Twelfth and Sansom streets, and A. L. Carhart, Hale Building, Philadelphia, are figuring.

Pennsylvania

Contracts Awarded

Parish House (add.), Gulph Mills, Pa., \$6,500. Architects, Geo. Nattress & Son, Twelfth and Walnut streets, Philadelphia. Owners, Episcopal Church of Gulph Mills, Pa. Stone, 1 story additional, 28x13 feet, 34x26 feet and 41x13 feet, slate roof, pine floors (plumbing, heating and electric work reserved). Contract awarded to John T. Worrell, Rosemont, Pa.

Church, Ridge road, east of Market street, Chester, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, R. C. Church of the Holy Saviour, care of Rev. Thos. J. Horan. Port Deposit granite, 1 story, slag roof, steam heating, electric lighting, yellow pine floors. Contract awarded to Francis J. Moore, Chester, Pa.

Isaac Sharpless Hall, Haverford, Pa., \$100,000. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Stone, reinforced concrete and steel, 4 stories and basement, 111x67 feet, asbestos and asphalt roof, maple, cement and terrazzo floors, metal lath, waterproofing, safety treads, marble work, hollow tile, (1) elevator (heating, plumbing and electric work reserved). Contract awarded to Crump & Co., Denckla Building, Philadelphia.

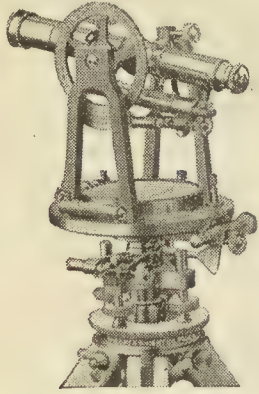
School and Auditorium Building, Fort Washington, Pa., \$34,000. Architects, Schermhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Upper Dublin School District, Jarrettstown, Pa. Stone, 2 stories, 60x90 feet and 1 story, 65x90 feet, slate and slag roofs, san furnace system heating, electric lighting, yellow pine floors. Contract awarded to Wm. L. Hampton, Pottstown, Pa.

Mill No. 5, Lancaster, Pa. Architect, C. Emelen Urban, Woolworth Building, Lancaster, Pa. Owners, Stelhi Silks Corp., 104 E. Twenty-fifth street, New York City. Stone, brick and concrete, 3 stories, 70x282 feet, slag roof, (heating, electric work and elevator, reserved) trussed concrete, steel sash, waterproofing, fire doors, safety treads, concrete and maple floors. Contract awarded to Jos. F. Breneman, 135 North Duke street, Lancaster.

Warehouse, Mulberry street, Lancaster, Pa. Architect, J. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owners, Sheet Metal & Supply Co., Lancaster, Pa. Brick, 1 story, 34x24 feet, slag roof, electric lighting, wood floors, fire doors. Contract awarded to Jos. S. Zook, 555 North Duke street, Lancaster, Pa.

Factory Building (add.), Allentown, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, International Motor Co., Allentown, Pa. Brick, concrete and steel, 1 and 2 stories, 200x45 feet, composition roof (steam heating, sprinklers and elevator reserved), electric lighting,

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metal sash, concrete floors. Contract awarded to Butz & Clader, Allentown, Pa.

Residences (32), Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owner, Thos. Dunn, Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 20x28 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Contract awarded to Jacob Nagle, Allentown, Pa.

Commonwealth Building (add.), Allentown, Pa. Architects, Jacoby & Weishample, Commonwealth Building, Allentown. Owner, Mrs. F. H. Baldwin, on premises. Interior addition to seventh floor. Contract awarded to Adam Hertzog, Allentown, Pa.

Residences (10) Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owners, Kinney & Cawley, Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 20x28 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Contract awarded to Municipal Cont. Co., Bethlehem Trust Building, Bethlehem, Pa.

Moving Picture Theatre, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth st., Allentown, Pa. Owner, Oliver Gerneck, Allentown, Pa. Brick, 1 story, 41x155 feet, slag roof (steam heating, ornamental plaster reserved), electric lighting, wood floors. Contract awarded to Ritter & Smith, Allentown, Pa.

Garage, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, H. A. R. Dietrick, South Bethlehem, Pa. Brick and hollow tile, 3 stories, 60x100 feet, composition roof, electric lighting, concrete floors, gasoline storage system. Contract awarded to Butz & Klader, Allentown, Pa.

Residences (20), Easton, Pa. Architect, private plans. Owner, C. K. Williams & Co.,

Easton, Pa. Brick, 2½ stories, slate roof, electric lighting, wood floors. Contract awarded to H. D. Kolkenson, Easton, Pa.

Office Building, Fourth and Spruce streets, Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Merritt Bros., Inc., Fourth and Spruce streets, Reading, Pa. Brick, 3 stories, 32x16 feet, (roof and floors reserved by owners), vapor vacuum heating, electric lighting. Contract awarded to Adam Spotts, Reading, Pa.

Pumping Station (add.), Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth st., Allentown, Pa. Owners, City of Allentown, Allentown, Pa. Brick, 1 story and basement, 55x55 feet, slag roof, electric lighting, concrete floors. Contract awarded to L. E. Kratz & Son, Allentown, Pa.

Turntable, Rutherford, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, P. & R. R. R., Lebanon Valley Branch, Reading Terminal. Concrete and steel, 100 feet. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Residence, West Conshohocken, Pa. Architect, Wm. Wayne, Jr., 310 South Hicks street, Philadelphia. Owner, R. C. Wood, Jr., West Conshohocken, Pa. Stone, hollow tile and plaster, 3 stories, 125x40 feet, tile roof (lighting reserved), pine floors, vacuum heating, tile and marble work, metal lath. Contract awarded to Wm. H. Eddleman & Son, 453 Green Lane, Roxborough, Philadelphia.

Paint and Oil House, Chester, Pa. Architect, private plans. Owners, Sun Ship Building Co., Finance Building, Philadelphia. Brick and concrete, 1 story, 65x35 feet, slag roof, concrete floors, metal lath, fire doors. Contract awarded to Barelay White & Co., 1713 Sansom street, Philadelphia.

NEW JERSEY

Construction News

Residence (alt.), Moorestown, N. J., \$4,000. Architect, Clarence De Armond, 1529 Walnut street, Philadelphia. Owner, W. A. Richman, Moorestown, N. J. Frame, porch enclosures, frame and glass, tin roof, hardwood floors, fireplace. Architect taking bids. J. S. Rogers Co., Moorestown, N. J., and Geo. W. Shaner, Palmyra, N. J., are figuring.

High School, Bridgeton, N. J., \$125,000. Architect, E. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board, care of Frank Cowan, secretary, Bridgeton, N. J. Stone or brick, reinforced concrete, 2 stories and basement, 76x1220 feet and 75x70 feet, slag roof (steam heating, electric lighting, plumbing and iron work reserved), metal lath, lighting, plumbing and iron work reserved), metal lath, waterproofing and damp-proofing, fire doors, ventilators, safety treads, tile and marble work, metal lockers, cabinet

work. Owners taking bids (revised), due April 12th. Board Const. Co., Reading, Pa.; Andrew Breslin, Summit Hill, Pa.; Geo. W. Shaner, Palmyra, N. J.; Metzger & Fisher, Denckla Building, Philadelphia; Melody & Keating, 1322 Race street, and McCloskey-Bahls, 1620 Thompson street, Philadelphia, are figuring.

Residence (alt. and add.), Riverton, N. J. Architect, J. Fletcher Street, 129 S. Fifth street, Philadelphia. Owner, George Washington, Riverton, N. J. Plaster on present frame structure, 2½ stories, 25x60 feet, new hot water heating, electric lighting, tile baths, plumbing. Revised plans in progress.

Store (alt.), 1417 Boardwalk, Atlantic City, N. J. Architect, L. E. Denslow, 44 W. Eighteenth street, New York City. Owners, United Cigar Stores Co., 44 W. Eighteenth st., New York City. New bulk front, electric

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lighting, tile and marble work, pine floors. Architect has received bids.

Summer Hotel (add.), near Laneka, N. J. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, Jefferson Schiel, Pierce School, 1420 Pine street. Frame, 2 stories addition, 41x19 feet, (hot water heating reserved), slag roof, plumbing, cement floors. Architect taking bids, due March 28th. L. H. Richmond, Lakehurst; Jos. Holmes & Bro., Forked River, N. J.; Clarence D. Polhemus, Toms River, N. J.; L. J. Hutchinson, Pine Beach, N. J.; Black & Son, Ocean Gate, N. J., and Thos. Wilbur, Toms River, N. J.; are figuring.

Beef Cooler Building, Passaic, N. J. Architect, private plans. Owners, Armour & Co., 60 North Market street, Boston, Mass. Reinforced concrete and brick, 4 stories, 90x90 feet, slag roof (heating reserved), cement and plank floors, hollow tile, electric lighting, hollow metal sash and skylights, fire doors, hollow tile, elevators. Owners have received bids.

Club House, Riverton, N. J. Architect, J. Fletcher Street, Drexel Building, Philadelphia. Owners, Riverton Country Club, Riverton, N. J. Frame, 2 stories, 40x60 feet, shingle roof, hot water heating, marble and tile work, asbestos floors, metal lockers, plumbing. Plans in progress. Will take bids in about two weeks.

Stores (2) and Apartment, Vineland, N. J., \$10,000. Architects, Fred L. Hill & R. A. Walls, 737 Real Estate Trust Building. Owner, G. B. D'Ippolito, Vineland, N. J. Brick, 2 stories, 42x60 feet, tile roof, heating not de-

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ecided, hardwood and composition floors, electric lighting, tile work. Architects taking bids, due April 6th. Mutual Eng. Co., Franklin Building, Philadelphia; W. Sandos, C. Williams and J. D. Pasquale, all of Vineland, N. J., are figuring.

Apartment House, Euclid avenue and Boardwalk, Atlantic City. Architect, private plans. Owner, Isaac Aaron, Beverly Court Apartments, Atlantic City, N. J. Brick, 4 stories, 120x84 feet, slag roof, steam heating, electric lighting, hardwood floors, elevators. Plans about completed. Owner will take sub-bids.

Hotel, States avenue and Boardwalk, Atlantic City, \$2,500,000. Architect, A. F. Gilbert, 80 Maiden Lane, New York City. Owners, Atlantic City Hotel Corp., E. H. Cuthbert, Guarantee Trust Building, Atlantic City, N. J. Brick, steel and concrete, 24 stories, 130x325 feet. Plans completed.

High School, Cape May Court House, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board, Cape May Court House, N. J. Brick, 3 stories, 96x94 feet, slag roof, steam heating, electric lighting, metal lath, yellow pine floors. Owners taking bids, due March 30th. Wm. Eisenburg, Woodbine, N. J.; Philip Hannum, Charles Corson and Wm. Porch, Sheen Building, all of Atlantic City, N. J., are figuring.

Apartment House (alt. and add.), 110 Atlantic avenue, Atlantic City. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owner, Jules F. Dedan, on premises. Brick and frame, 4 stories, 25x30 feet, slag roof, steam heating, electric lighting, hardwood floors. Architect will take bids March 26th.

Municipal Pier, Somers Point, N. J., \$3,000. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owners, City of Somers Point, Somers Point, N. J. Frame, auditorium 24x40 feet, approach 200x8 feet, composition roof, electric lighting, yellow pine floors. Plans in progress.

High School, Cape May, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board, Cape May, N. J. Brick, 3 stories, 50x125 feet, slag roof, steam heating, electric lighting, metal

lath, wood floors. Owners taking bids, due April 9th. George W. Shaner, Palmyra, N. J.; Richman Const. Co., Moorestown, N. J.; J. W. Mathis & Son, Charles S. Corson, W. Porch, Sheen Building, all of Atlantic City, N. J.; Cummings & Son and Sherman S. Sharp, both of Cape May, N. J., are figuring.

Moose Home (alt. and add.), 714 Atlantic avenue, Atlantic City, N. J. Architect, S. Headley, Guarantee Trust Building, Atlantic City, N. J. Owners, Loyal Order of Moose, 714 Atlantic avenue, Atlantic City. Brick, 2 stories, 75x40 feet (heating and lighting reserved), slag roof, yellow pine floors. Low bidders, Shenkman & Yarmou, Atlantic City, N. J.

Rest Pavilions (2), Ocean City, N. J. Architect, Otis M. Townsend, Ocean City, N. J. Owners, Ocean City, Department of Public Works, Ocean City, N. J. Frame, 1 story. Plans about completed.

Music Pavilion, Ocean City, N. J., \$20,000. Architect, Otis M. Townsend, Ocean City, N. J. Owners, Ocean City, Department of Public Works, Ocean City, N. J. Frame and concrete, 1 story, 50x70 feet, slag roof, wood floors, electric lighting. Architect taking bids, due about April 3rd.

Apartment House, Vermont avenue and Boardwalk, Atlantic City, N. J., \$300,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, John Stafford, Atlantic City, N. J. Brick and steel, 115x166 feet, slag roof, steam heating, electric lighting, tile and marble work, fire escapes, wood floors, elevators, roof ventilators, waterproofing. Architect and owner taking sub-bids on all lines.

Residences (10), Trenton, N. J. Architect, private plans. Owner, L. C. Case, Jr., 545 West State street, Trenton, N. J. Brick, 2½ stories, 40x43 feet, slate roof, steam heating, electric lighting, hardwood floors. Owner will build.

Factory Building, Trenton, N. J. Architect, J. P. Pette, 131 Jackson street, Trenton, N. J. Owner's name withheld. Brick, 1 story, 36x180 feet, slag roof, steam heating, electric lighting, concrete and wood floors. Plans in

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progress.

Y. M. H. A. (alt.) Stockton street, Trenton, N. J., \$25,000. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Y. M. H. A., Trenton, N. J. Consists of general alterations to club house, new gymnasium, meeting and club rooms, ball room and ladies' reception room, safety treads, tile and marble work. Architects taking revised bids, due March 28th. Scott & Day, J. H. Morris, C. J. Smith, S. W. Mather & Son, and H. M. Levy, all of Trenton, N. J., are figuring.

Dormitory Building, New Jersey School for Deaf, Trenton, N. J. Architect, George S. Drew, Capitol Building, Trenton, N. J. Owners, New Jersey State Board of Education. State House, Trenton. Brick, 3 stories and basement, 36x113 feet, slag roof (heating and lighting and plumbing reserved), concrete and pine floors, tile and marble work, metal window guards, dampproofing, iron stairs. Owners taking bids, due April 7th at noon. In addition to those previously reported, S. W. Mather & Son, Trenton, N. J.; S. Kearton, 111 Cook avenue, Trenton, N. J., and Carl Poinsett, 37 Maple avenue, Trenton, N. J., and A. J. Newell, Widener Building, Philadelphia, are figuring.

Hotel, Fortescue, N. J. Architects, Guy King & Co., 1513 Walnut street, Philadelphia. Owner's name withheld. Frame, 5 stories, 60x90 feet, shingle roof, electric wiring, yellow pine floors, fire escapes. Plans completed. Architects ready for bids, due April 2nd.

Sea Wall and Jetties, Longport, N. J. Engineers, Case Coast Protection Corp., 1170 Broadway, New York City. Owners, Borough of Longport, Board of Commissions, Borough Hall, Longport, N. J. Reinforced concrete wall 6.090x16 feet, promenade 6.090x14 feet, jetties 300x6 feet, 3,045 reinforced concrete pilings, concrete pilings, concrete hardener. Low bidders, Daniel Bader, Atlantic City, N. J., Sutton & Corson, Ocean City, N. J., \$383,247.60.

New Jersey Contracts Awarded

Pump Intake, Lake Hopatcong, N. J. Engineer, private plans. Owners, E. I. du Pont de Nemours Powder Co., Wilmington, Del. Consists of 8-inch cast iron flange and wood and pile crib. Contract awarded to Driscoll Co., Stock Exchange Building, Philadelphia.

Library, Collingswood, N. J., \$15,000. Architect, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Carnegie Free Library, Collingswood, N. J. Brick, steel, concrete, stone trimmings, 1 story and basement, 50x50 feet, slag roof, steam heating, electric lighting, cement work. Contract awarded to Jas. W. Draper, 436 Haddon avenue, Camden, N. J.

Yacht Club (add.), Inlet, Atlantic City, N. J., \$8,000. Architects, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owners, Atlantic City Yacht Club, on premises. Frame, 3 stories, 12x19 feet, slate roof, steam

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heating, electric lighting, metal lath, tile and marble work. Contract awarded to Taylor & Co., Guarantee Trust Building, Atlantic City, N. J.

Office Building, Greenwood avenue and Lewis street, Trenton, \$17,000. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owners, John E. Thropp Sons Co., on premises. Brick, 2 stories and basement, 62x38 feet, slag roof, steam heating, electric lighting, metal lath, fire doors, ventilators. Contract awarded to J. H. Morris, Trenton, N. J.

Bulk Head and Basin, Trenton, N. J. Engineer, J. W. Thompson, Broad Street Bank Building, Trenton, N. J. Owners, City of Trenton, care of City Commissioner J. R. Fell, Trenton. Timber and concrete, 1,120 feet long. Contract awarded to Louis Stieling, 117 Madison avenue, New York City.

Warehouse No. 4 (add.), Penn street wharf, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Joseph Campbell Co., Camden, N. J. Brick, corrugated iron, 1 story, 50x176 feet, slag roof, asphalt floors (heating and electric lighting reserved), hollow metal skylights. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Freight Office, Atlantic City, N. J. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Brick and steel, 2 stories, 50x36 feet, slag roof, hot water heating, electric lighting, metal sash, waterproofing, fire doors, pine floors, metal lockers, tile and marble work. Contract awarded to Edw. L. Bader, Atlantic City, N. J.

streets, Baltimore. Brick and concrete, 4 stories. Plans in progress. Too early for details.

Residences (500), St. Helena, Baltimore, Md. Architect, E. L. Palmer, Munsey Building, Baltimore, Md. Owners, Eastern Land Co., E. H. Bouton, president, Munsey Building, Baltimore. Brick or concrete and stucco, 2½ stories, slate, tin or composition roofs, not air heating, electric lighting, fireproofing, plastering, tile work, plumbing, galvanized iron work. Plans in progress.

Residence, Lake Drive, Baltimore, Md., \$30,000. Architects, Smith & May, 1133 Calvert Building, Baltimore, Md. Owner, Abraham Eisenberg, 213 West Lexington street, Baltimore. Brick, 2½ stories, slate roof, electric lighting. Plans in progress.

Warehouse (add.), Crumpton, on Chester Road, Kent County, Md. Architects, Motu & White, 324 North Charles street, Baltimore. Owners, D. E. Poote & Co., 2023 Aliceanna street, Baltimore. Concrete foundation and galvanized iron, 66x128 feet, tin and slag roof, cement floors, millwork, skylight. Architects taking bids, due March 28th. W. E. Burnham, Law Building; B. F. Bennett Building Co., 123 South Howard street; Cowan Building Co., 106 West Madison street; W. E. Harr Co., 213 North Calvert street, all of Baltimore, Md.; E. F. Coleman, Crumpton, Md.; W. S. & A. N. Culp and Walter F. Pippin, both of Chestertown, Md., and B. W. Dullin, Millington, Md., are figuring.

Apartment House, Thirty-sixth, Greenway and St. Paul streets, Baltimore, Md. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owner, George R. Debnam, Union Trust Building, Baltimore, Md. Brick, stone and stucco, 4 stories, 106x41x84 feet, tile and tin roof, vapor heating, electric lighting, ornamental iron work, fire escapes, skylights, ventilators, dampproofing, plastering, metal lath, tile, marble, slate and terrazzo work, dumbwaiters, cement floors, metal sash and doors. Architects taking bids, due March 29th at noon. G. Walter Tovell, Eutaw and McCulloch streets; John Hiltz & Sons, 3 Clay street; Price Concrete Const. Co., Maryland Trust Building; Consolidated Eng. Co., Calvert Building; Cogswell-Koether Co., 406 Park avenue; Edward Brady & Son, 1109 Cathedral street; J. Henry Miller, Inc., Eutaw and Franklin streets; H. D. Watts Co., Garrett Building; Charles L. Stockhausen Co., Gay and Water streets, Baltimore, Md., are figuring.

Church (add.), Old York Road and Thirty-fourth street, Baltimore, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owners, Waverly Presbyterian Church, on premises. Brick, 2 stories, slate roof, steam heating, electric lighting, plastering, painting, plumbing, tile work. Architect taking revised bids, due April 3rd. The following are figuring: Cowan Building Co., 106 West Madison street; C. C. Watts, 407 West Twenty-fifth street; Consolidated Eng. Co., Calvert Building; Thomas L. Jones & Sons, 418 West Saratoga street; H. H. Brown, 212 Clay street; Price Concrete Const. Co., Maryland Trust Building; John Waters Co., 23 East Center street; Cogswell-Koether Co., 406 Park avenue; R. B. Mason, 308 West Madison street; Henry A. Knott, 1340 North Eden street, and P. J. Cushen, 217 St. Paul street, all of Baltimore, Md.

Superintendent's Cottage, Robinson, Md. Architect, Thomas B. Lippincott, Stephen Girard Building, Philadelphia. Owners, Brenan Sand Co., 123 South Third street, Philadelphia. Frame, 2 stories, 31x30 feet, shingle roof, pine floors, hot water or hot air heating. Architect taking bids, due April 2nd. W. D. Duvall and John Appleton, both of Pasadena, Md., are figuring.

Miscellaneous Construction News

Church, Woodlawn and Lancaster avenue, Wilmington, Del., \$15,000. Architect, E. Canby May, Du Pont Building, Wilmington, Del. Owners, Silverbrook Trustees, on premises. Stone, brick and stucco, 2 stories, 100x42 feet, tin roof, steam heating, electric lighting, metal lath, yellow pine floors. Architect taking bids. W. Howard May, 1014 Rodney st., and W. D. Haddock & Co., 804 Orange street, both of Wilmington, Del., are figuring.

Store Building (alt.), Ninth and King sts., Wilmington, Del. Architect, E. Canby May, Du Pont Building, Wilmington, Del. Owners, Miller Bros., on premises. Brick and terra cotta, 4 stories, 23x60 feet, wood floors, electric lighting, metal lath, elevators. Architect has received bids.

Factory (extension), Winston Salem, N. C. Architect, J. E. Siring, Greenville, S. C. Owners, R. J. Reynolds Tobacco Co., Winston Salem, N. C. Brick, steel and reinforced concrete, 5 stories, 240x176 feet, slag roof, maple concrete and asphalt floors, metal sash, waterproofing, fire doors, ventilators, metal window guards, hollow tile, metal skylights, rolling steel shutters (plumbing, elevators, heating, electric work and sprinkler reserved). Architect taking bids, due April 2d. Warren-Moore Co., Commercial Trust Building, is figuring in addition to those previously reported.

Fish Market, Packing House and Lunch Rooms, Water street, between Eleventh and Twelfth streets, Washington, D. C. Architect, A. Ashford, Washington, D. C. Owners, U. S. Govt., office of District Commissioners, Washington, D. C. Brick, 2 stories, 42x53 feet, slate roof (heating reserved), cement floors, metal lath, rolled steel sash, elevators, wire work. Owners taking bids, due March 30th. Warren-Moore Co., Commercial Trust Building, Philadelphia, is figuring.

Store Building, 814 King street, Wilmington, Del. Architect, J. D. Thompson, Ford Building, Wilmington, Del. Owner, John E. Kane, on premises. Brick, Indiana limestone trimmings, 1 story and basement, 27x109 feet, composition roof, steam heating, electric lighting, yellow pine floors, metal ceilings. Architect has received bids.

Office Building, Canton, Baltimore, Md., \$5,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick and terra cotta trimmings, 2 stories and basement, 18x30 feet, slag roof, steam heating, electric lighting, terrazzo work, wood and cement floors. Owners taking bids, due March 30th. Singer-Pentz Co., 600 Equitable Build-

ing; J. Henry Miller, Eutaw and Franklin sts.; Edw. Brady & Son, 1113 Cathedral street; Milton C. Davis, 633 North Calvert street; John T. Gorsuch, 131 Law Building; Price Concrete Const. Co., 210 Maryland Trust Building; and Consolidated Const. Co., 243 Calvert street, all of Baltimore, Md., are figuring.

Hotel, Gay and Clinch streets, Knoxville, Tenn., \$400,000. Architect, L. Leslie Headley, Guarantee Trust Building, Atlantic City, N. J. Owner, J. J. Ashe, Knoxville Saving Bank, Knoxville, Tenn. Steel, concrete and terra cotta, 10 stories, 57x197 feet, roof not decided, steam heating, electric lighting, tile, terrazzo and marble work, rolled steel sash, rolled steel skylights, kalamein doors, fire escapes and iron stairs, concrete and hardwood floors, metal lath, elevators, safety treads, roof ventilators, metal weather strips, waterproofing, dampproofing. Plans in progress.

Residence (alt. and add.), Long Island, N. Y. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, J. P. Grace, 7 Hanover Square, New York City. Brick, 2½ stories, 2 wings, 60x40 feet, slate roof (heating and lighting reserved), tile and marble work, metal lath, modern plumbing, dampproofing. Architect taking bids, due April 4th. George A. Fuller Co., Buller Building; Whitney Co., 1 Liberty street; Tidewater Building Co., Jacob & Young, 116 West Thirty-second street, all of New York City, and George Mertz, Fort Chester, N. Y., are figuring.

Workmen's Hotel, Detroit, Mich. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, stone and terra cotta, 3 stories, 300 rooms, composition roof, electric lighting, steam heating. Revised plans in progress.

Maryland Construction News

Store (alts.), 316 West Lexington street, Baltimore, Md. Architect, Benjamin Frank, 328 North Charles street, Baltimore. Owner, Mrs. Emma Cohn, 232 Pine street, Philadelphia. Consists of new front, interior and exterior alterations. Plans in progress.

Home (add.), Broadway and Thames street, Baltimore, Md. Architects, Owens & Sisoo, Continental Building, Baltimore, Md. Owner, The Anchorage, Broadway and Thames

Maryland Contracts Awarded

Studio (alt. and add.), 16 West Lexington street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owner, David Bachrach, on premises. Brick, 3 stories, plumbing, electric lighting, hardwood floors, tile work. Contract awarded to Herbert & Prodehl, 431 Munsey Building, Baltimore, Md.

Residence (alts. and add.), Melvale, Md. Architects, Mottu & White, 322 North Charles street, Baltimore, Md. Owner, Edw. McC. Fisher, 926 Cathedral street, Baltimore, Md. Frame and stucco, 2½ stories, slate or shingle roof, hot water heating, electric lighting. Contract awarded to W. E. Harn Co., 213 North Calvert street, Baltimore.

Store and Residence (alts.), 2005-07 West Pratt street, Baltimore, Md. Architect, John R. Forsythe, 232 St. Paul street, Baltimore, Md. Owner, Charles A. Kollmeyer, on premises. Brick, concrete work, Carey roof, electric lighting, metal ceilings, waterproofing, painting, plumbing, interior tile work, dumb-waiter. Contract awarded to Fred W. Felte, 319 South Pulaski street, Baltimore, Md.

Residence, Guilford, Baltimore, Md., \$25,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, Wm. Whitridge, Keyser Building, Baltimore. Brick and stucco, 2½ stories, slate roof, electric lighting, iron work, dampproofing, plastering, plumbing, tile and terrazzo work, hardwood floors, dumb-waiters, painting. Contract awarded to G. Walter Tovell, Eutaw Place and McCulloh street, Baltimore.

Factory Building and Warehouse, Saratoga street and Guilford avenue, Baltimore. Architect, James R. Edmunds, 11 East Pleasant street, Baltimore, Md. Owners, Maryland Meter Co., Edmund S. Dickey, manager, on premises. Reinforced concrete, brick veneer, 6 stories, 52x94 feet, slag roof, skylights, steel sash, fire doors and shutters, waterproofing, painting (plastering, hardware, heating plant, plumbing fixtures, wiring, elevator and dumb-waiters reserved). Contract awarded to Deverall, Spencer & Co., Garrett Building, Baltimore, Md.

Garage, Green Spring Valley, Md. Architect, Theo. Wells Pietsch, 1210 American Building, Baltimore, Md. Owner, A. Stanley Zell, Green Spring Valley, Md. Frame and stucco, 28x57 feet, shingle roof, cement floors, electric lighting. Contract awarded to John Waters Co., 23 Center street, Baltimore.

Office Building, First avenue and Fifth st., Canton, Baltimore, Md. Architect, private plans. Owners, Standard Oil Co. of New Jersey, Pier No. 2, Pratt and Commerce streets, Baltimore. Brick and terra cotta, 3 stories, 43x71 feet, slag roof, concrete work, marquise (heating, lighting fixtures, plumbing reserved). Contract awarded to J. Henry Miller, Inc., Eutaw and Franklin streets, Baltimore.

Store and Apartments, 301 Twenty-ninth street, Baltimore, Md., \$11,000. Architects, Blanke & Zink, Equitable Building, Baltimore. Owner, Lemuel T. Cooksey, 1500 Bolton street, Baltimore. Brick and concrete, 3 stories, slag roof, hot water heating, electric lighting, tile and hardwood floors, sheet metal work, metal ceilings, skylights. Contract awarded to R. H. Frazier & Son, 224 West Mulberry street, Baltimore.

Even the best piece of machinery gets a hot bearing once in a while.—Ex.

Permits for New Buildings

Power House, Erie avenue and American street, \$42,000. Phila. & Reading (O), Reading Terminal. Fred Havens Co. (O), 845 N. Nineteenth street. Brick, 1 story, 41x121 feet, slag roofing.

Dwellings (9), Sixty-second and Pine sts., \$21,800. Ramsey Bros. (O and C), 5932 Catherine street. Stone and brick, 2 stories, 15x31 feet, slag roofing, hot water heating.

Garage, Leland and Poplar streets, \$29,990. The Ridge Avenue Farmers' Market (O), Eighteenth and Ridge avenue. The Hogg Const. Co. (C), 1634 Sansom street. Brick, 2 stories, 44x58x169 feet, slag roof, steam heating.

Garage, 5317 Laurens street, \$300. Harry Grauer (O), on premises. E. Carmel (C), 332 Queen lane. Brick, 1 story, 16x20 feet.

Warehouse and Stable, Thirtieth below Locust sts., \$40,000. Morris Nuter & Co. (O), 1605 Market street. Wm. Steele & Son Co. (C), 1600 Market street. Brick, 2 stories, 42x193 feet, slag roofing.

Dwelling, Divcas, north of Bleigh street, \$1,200. John Swary (O and C), 1546 Cottman street. Frame, 1 story, 24x35 feet, slag roof.

Garage, 6122 Nassau street, \$550. W. F. Salvus (O), on premises. John Walter (C), Beechwood Park, Pa. Hollow tile, 1 story, 12x18 feet.

Garage, 2111 North Toronto street, \$1,500. Nicholas Cannoe (O and C), 3029 N. Twenty-second street. Brick, 1 story, 19x100 feet, slag roof.

Dwellings (22), 900-942 Rochland street, \$69,200. Gades & Hoffman (O and C), 1307 Haddon avenue. Brick, 2 stories, 15x30 feet, slag roofing, hot water heating.

Office and Shop, 2000 E. Cambria street, \$1,200. Jos. Hunter (O), 2324 E. Cambria st. Willard Myers (C), 2000 East Cambria street. Brick, 2 stories, 17x37 feet, slag roof.

Dwelling, 905 S. Ninth street, \$2,600. Angelo Volpe (O), 719 South Tenth street. Cerosoli Scuri (C), 1231 Christian street. Brick, 3 stories, 15x31 feet, slag roofing.

Dwellings (8), Pelham road, \$50,500. Robert Killough (O and C), Wayne avenue, Duval street. Stone and brick, 3 stories, 21x36 feet, slate roofing.

Dwellings (5), Eastwick avenue and Eighty-seventh street, \$10,000. Robert R. Health (O and C), 3220 Eighty-seventh street. Brick, 2 stories, 15x25 feet, slag roofing, hot air heating.

Garage, corner Wanisch and Champlost sts., \$800. E. Heyman (O), Eleventh and Champlost avenue. L. Davis (C), Thirteenth and Nedro sts. Stone, 1 story, 20x40 feet, slag roof.

Trestle, Thirtieth and Thompson streets, \$500. Wm. F. Koelle & Co. (O), Twenty-sixth and Oxford streets. Open wood trestle, 6x52 feet.

Garage, 817 N. Sixty-third street, \$600. M. Schamel (O), on premises. C. W. McCorkle (C), 1946 Diamond street. Brick, 1 story, 12x20 feet.

Garage, 2535 Emery street, \$500. Gornley Bros. (O), 2518 Richmond street. H. A. Herbert (O), 2620 E. Cumberland street. Brick, 1 story, 17x28 feet, slag roof.

Sunday School, Pulaski to Winna avenue, \$46,900. West Side Presbyterian Church (O), on premises. Frederick Elvidge Son (C), 5522 Germantown avenue. Stone, 2 stories, 50x42 feet, slate roof.

Shed, Tasker street, 250 feet east side of Delaware river bulkhead line, \$2,000. New-

ton Supply Co. (O), Thirtieth and Chestnut streets. Standard Const. Co. (C), 1713 Sansom street. Open shed, open on all sides, 35x45 feet.

Warehouse and Shop, 318 Kater street, \$1,600. David Snoder (O and C), 339 Banbridge street. Brick, 2 stories, 19x68 feet, slag roof, hot water heating.

Garage, Penn street, south of Harrison st., \$600. Ed. D. Smith (O and C), 4834 Penn st. Brick, 1 story, 18x23 feet, slag roof.

Residence and Garage, George lane, Wynnefield, \$1,800. T. Bryan, Esq. (O), Wynnefield, Pa. James H. Wells (C), Otis Building. Stone, 1 story, 22x26 feet, straight roof. residence, stone, 2 stories, 28x30 feet, slate roofing, hot water heating.

Garage, rear 2775-77 Helen street, \$3,500. A. Krentz (O), D street and Wyoming avenue. H. Crompton & Bro. (C), 4614 Oakland street. Brick, 1 story, 42x68 feet, slag roof.

Garage, 335 Durham street, \$2,000. E. B. Nickson (O), 7219 Bryan street, \$2,000. L. D. Stites (C), 126 Herman street. Brick, 1 story, 45x22 feet, rear 22x27 feet, slag roof.

Garage, Durham street, south of Germantown avenue, \$1,000. E. B. Nickson (O), 7219 Bryan street. L. D. Stites (C), 127 Herman street. Brick, 1 story, 13x26 feet, slag roof.

Offices, Wheatstap lane, \$6,750. Penna. Railroad (O), Broad Street Station. L. H. Smith (C), Hale Building. Brick, 2 stories, 15x53 feet, slag roof, steam heating.

Offices, 1124 Vine street, \$10,000. Russell & Ball (O), 1120 Vine street. Standard Const. Co. (C), 1713 Sansom street. Brick, 1 story, 17x95 feet.

Garage, 345-47 Orrainna street, \$9,900. E. S. Armstrong (O), 130 South Twelfth street. Connen Const. Co. (C), 1737 Fibbert street. Brick, 1 story, 92x117 feet, slag roof.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 17, 1917.—Sealed proposals will be received at this office until 3 P. M. April 16, 1917, and then opened, for new roof and miscellaneous repairs, for laundry building, Bureau of Engraving and Printing, Washington, D. C., in accordance with the specification and drawings Nos. 100-B, 400-B, and 401-B, copies of which may be had at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, March 22, 1917.—Sealed proposals will be opened in this office at 3 P. M. on April 27, 1917, for the construction, complete, of the steerage barracks for the United States quarantine station at Portland, Me. Drawings and specifications may be obtained from the custodian at the quarantine station or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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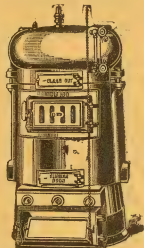
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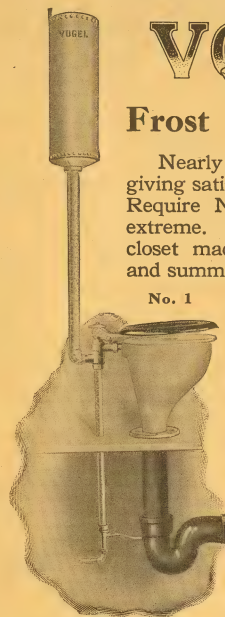
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	4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	
3-13-075	119	86	63	45	32	22										3 Inches
3-13-075	178	130	96	71	51	36	25									4 Inches
3-13-125	218	164	126	98	76	60	46	36	27							3 Inches
3-13-125	323	245	189	147	116	91	72	56	43	24						4 Inches
3-9-15	395	302	235	185	148	119	95	77	61	38	21					4 Inches
3-9-20	536	413	325	260	211	172	142	117	97	66	44	28				4 Inches
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3-6-40	1797	1404	1124	915	757	634	536	457	393	295	225	173	133	102	78	6 Inches

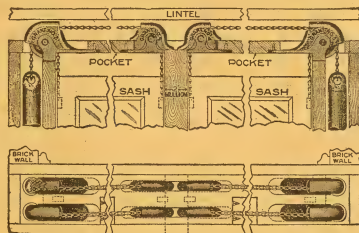
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Vol. XXXII., No. 14
April 4, 1917

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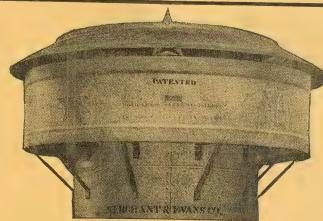
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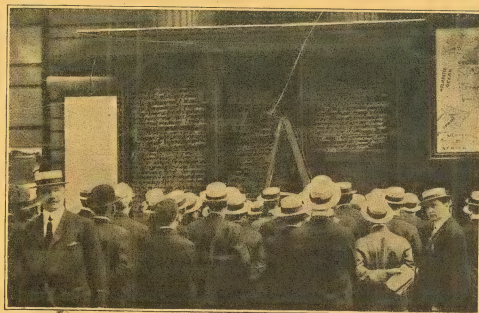
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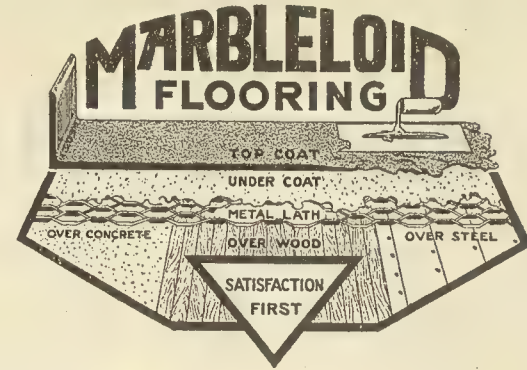
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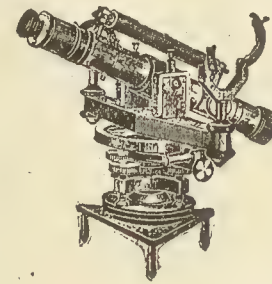


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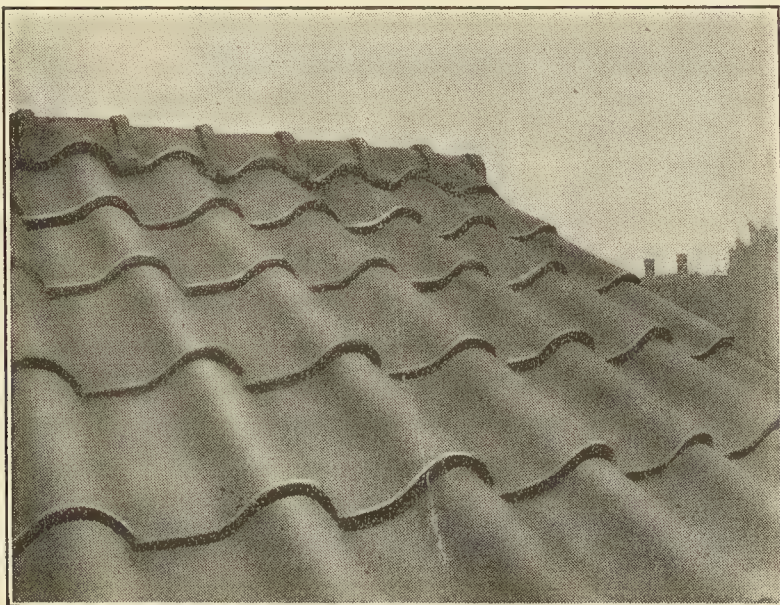
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural

VOLUME XXXII

Number 14

Engineering and the Building Trades

PHILADELPHIA

April 4, 1917



As The Editor Sees It



THE suggestion, in a recent number of THE GUIDE, that an organized effort be made to arouse the interest of pupils in the public schools to the importance of good architecture, met with the usual apathetic indifference. "What is everybody's business is nobody's business." And so it happens that the drawings and accessories, shown at the recent architectural exhibition, will not be exhibited in the schools, but will be dispersed after the usual fashion, letting pass an opportunity such as will not again present itself until the next annual exhibition, a year hence.

This popularizing of the arts by way of the public schools is engaging the attention of education in other cities. In New York particularly immense strides are being made in the education of the popular taste along the lines of the higher ideals. In addition to the Municipal Art Society mentioned in a recent paragraph there is, in New York City, an active interest on the part of the Board of Education in spreading intelligent ideas upon the subject of the art.

* * *

DR. JAMES P. HANEY, director of art, makes the suggestion in his annual report that educators generally take an active interest in the decorating of school buildings.

The report has just been published by the Board of Education, with an extended statement of what the art department in the high schools has done for the city's children during the last year.

Doctor Haney asks the Board of Education to establish a committee on art to further the development of industrial art training along a variety of lines. In advocating this the director says: "The industrial growth of the country clearly points to the increasing importance of the role played by art in industry. As compared with foreign countries, we are

behind in the conservation of our esthetic resources. In a city of the vast interests which New York represents, special attention should be given to this important subject. This can best be effected in the Board of Education by a special committee which shall seek to foster the arts, fine and applied, by the direction and guidance of all agencies making for their development."

The report tells, with the aid of many illustrations, what the art department has done along the lines of specialized teaching for pupils of varied talents. The development of special courses in interior decoration, commercial design, art history and technical drawing is explained at length, and a summary is given of the work of the School Art League, which last year reached more than 40,000 teachers and children in its lectures and museum visits. To bring art in close touch with the trades, the director also arranged last year to have more than 1,000 firms visited by teachers especially assigned to make an industrial art survey. The results of this survey served to bring art manufacturers and the schools into closer touch and to inform the art teachers of the conditions for which their students must be prepared.

* * *

TO evidence the practical attitude of the department in regard to the problems which it has to face, Doctor Haney makes a summary of just what the department seeks to do. The statements are ten in number.

First. To train "the many" in the power of esthetic appreciation. To send them out of the schools "esthetically alive" to their surroundings. To aid thus in the creation of an art-loving public.

Second. To train "the few" to a high

order of technical ability as draughtsmen and industrial designers. To sift out these talented pupils early and cause them to specialize in the direction of their talents.

Third. To differentiate the work of the department to meet the needs of each high school, and further, to differentiate the courses within each school that the needs and capacities of different types of students may be specifically met.

Fourth. To secure the co-operation of all teaching agencies in forwarding the aims of the department, these to include museums, art societies, civic and merchant associations, loan exhibitions, docent service, systematic study in organized courses and visits to other schools by teachers' conferences, etc.

Fifth. To make the work of the art department of the high schools touch the life of the school, at many angles through loan exhibitions, assistance with plays and pageants, artistic supervision of bulletin boards, preparation of posters, assembly art talks, etc.

Sixth. To cause pupils to realize that there is a "cash value" in industrial art education; i. e., that it is profitable to the talented student to cultivate that talent along industrial art lines.

Seventh. To show public-spirited employers that the development of native talent in the industrial arts is an economic necessity on the part of the State, and that this development cannot take place unless they aid.

Eighth. To develop an Industrial Art School with a variety of day and evening courses designed to fit workers for the highly specialized work of the more important art trades. To offer in this school an opportunity for the completion of the special training begun in the individual high schools.

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**BLUE
PRINTS**

Ninth. Until a free city Industrial Art School is organized to provide at least one scholarship in industrial art each term in each high school. This scholarship should offer one year of free post-graduate instruction.

Tenth. To secure well-decorated school buildings through the purchase of appropriate pictures, and the bringing together of artists and school authorities to the end that mural paintings may be especially designed and installed in the schools.

HERE is a work eminently worth doing—the opening-up to young and impressionable minds of the great, underlying principles of taste. Let those who rail at the failure of the masses to appreciate the beautiful and the good in art do something to educate the public intelligence.

NEARLY 20,000 union workmen, members of the Building Trades Council, are idle in Cleveland as a result of difference between that body and the Building Trades Employers' Association, due, it is charged, to sharp practice and repudiation of agreements on the part of the union element. The conditions in Cleveland are alleged to have been such as to subject the employer to all sorts of petty and burdensome impositions at the hands of business agents, walking delegates and the other recognized impedimenta of organized labor. It is against these conditions, rather than any serious disagreement as to wage scales, that the Employers' Association is in revolt. Union leaders claim that small operative work is keeping the bulk of their men occupied, but unbiased reports aver that thousands are idle.

commodious quarters at Ninth and Tioga streets, Philadelphia.

The architectural firm of Bissell & Sinkler has removed its offices to the Otis Building, Sixteenth and Sansom streets, Philadelphia.

The Ohio State Association of Architects at its recent annual meeting at Toledo named the following committee chairmen: City Plan, J. W. Thomas, Jr., Howell & Thomas, architects, Columbus and Cleveland; Education, William Warren Sabin, Cleveland; State Building Code, George R. F. Rhines, Toledo. The City Plan Committee will co-operate with Governor Cox, the National Government, the city of Columbus and Franklin County in a civic center development in Columbus along the lines of and following the lead of the Cleveland group plan. Officers of the State Association elected were: President, Lawrence S. Bellman, Toledo; vice-president, Harry I. Schenck, Dayton; secretary-treasurer, Herbert B. Briggs, Cleveland.

EDITORIAL NOTES

Paint manufacturers, dealers in paints and painters' supplies report considerable increase in this line of business during the present month, says R. G. Dun & Co. weekly trade review. Purchases are in larger quantities and represent all grades of material. There appears to be considerable activity in the painting line. Large contracts are being received, and it is believed that the volume of business done so far during the present month will exceed that for 1916.

The Sutton & Corson Company, Ocean City, is the lowest bidder for the contract for the erection of a huge re-enforced concrete sea wall to protect permanently the sea front of Longport, which Longport Commissioners expect to award next Saturday. The Ocean City company bid \$350,000, with two years for the completion of the work. Longport has disposed of bonds to provide funds and is ready to go ahead.

Milwaukee Home and Real Estate Show will be held April 9-15, 1917, at the Milwaukee Auditorium. The show is being conducted by the Milwaukee Real Estate Association and is the first one of its kind to be held by this association. It is designed as "an exposition of the highest art of home building and planning," and will include exhibits of heating and ventilating apparatus for the home.

Business is brisk in the hardware line. The trade activity so far this month is reported in the trade to be considerably greater than during the similar periods last month. Purchases are being made in larger quantities and order slips indicate that the present brisk pace will continue throughout the month.

Prices are firm in all lines and collections are said to be good.

"The huge resources we represent and the mechanics we have in our membership," writes Secretary Charles Elmer Smith, of the Philadelphia Master Builders' Exchange, "must be considered in the event of war or in any preparedness idea. The building trades are the groundwork of all that the United States could do. The Master Builders' Exchange has officially pledged its loyalty to the United States, but tangible plans as how it can serve the Government best will be formulated at a meeting of the Board of Directors on April 10. There isn't one contractor, sub-contractor or building material man but will turn over all his plant facilities and all his technical knowledge of construction to the manufacture of building materials, the erection of munition factories, or anything that is in any way connected with the building industry. The 700 members of the Exchange and the thousands of employees will gladly serve their country."

Judges Martin and Monaghan refused to grant an injunction sought by J. Joseph McHugh, a contractor, to prevent Director of Public Works Datesman from placing him on the "blacklist" of the department for failing to carry out five contracts for sewer construction. Assistant City Solicitor Lowengrund charged that McHugh "tried to turn a sharp corner on the city" by rejecting several contracts he did not care to fulfill. "He wanted to be placed on a pedestal, so he could select which contracts he would perform," Lowengrund concluded.

P. N. Reuter & Co., cement paving contractors, announce their removal to new and more

The new building code of Dayton, Ohio, which was passed by the City Commission the latter part of December, 1916, went into effect on March 1st. This code is the result of labors of a great many men in different occupations both in this and other cities of the State. The need of a building code for Dayton has been felt for a number of years, and while a number of attempts have been made by different organizations to compile such a code, nothing definite was accomplished until the Building Code Committee was appointed by the Greater Dayton Association in 1913.

The American Hardware Manufacturers' Association and the Southern Hardware Jobbers' Association will hold their convention at the Rice Hotel, Houston, Texas, April 17-20. F. D. Mitchell, 233 Broadway, New York, is secretary-treasurer.

J. R. Wemlinger, president of the Wemlinger Steel Piling Company, has been appointed First Lieutenant in the Engineer Officers' Reserve Corps of the United States Army. Mr. Wemlinger is secretary of the American Society of Engineering Contractors.

The National Metal Trades' Association will hold its convention at the Hotel Astor, New York City, April 25 and 26.

The National Fire Protection Association will hold its annual meeting in Washington, D. C., May 8-10, 1917.

Glass Brick Company, New York, office at 103 Park avenue, Manhattan, announces the completion of its new and enlarged plant at Hutington, West Virginia. Edward Ferger is the New York district manager.

Perth Amboy, or South Amboy, just across the river from Perth Amboy, is supposed to have been the place where New Jersey's pottery industry had its origin more than a cen-

tury and a half ago. Now the locality has three potteries, whose output brings Middlesex County up to second in the State. Mercer County, in which Trenton is located, is first. Other burned clay materials constitute a larger portion of the output in and about Perth Amboy now. Architectural terra cotta and fireproofing are very important. The men engaged in these enterprises are live wires and allow nothing to be left undone which will improve their industry.

* * *

The National Pipe and Supplies Association will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

QUANTITY SYSTEM FOR BUILDING CONTRACTS.

"In the preparatory work of letting equitable building contracts, and in American contracting methods generally, but few persons of experience will contend that our methods are at all comparable with those used abroad," says the "American Architect." "They possess, in fact, many defects that have been eliminated in other countries where the tendency to take chances is less pronounced than here.

"One plan quite generally followed abroad—the quantity system—has been subjected to the test of actual use for many years, and most of us who have taken the time to study its elements find much to recommend its adaptation to American building practice and ultimate general adoption in this country. It is our misfortune, however, that with the exception of a comparatively few architects and contractors, who had experience of the quantity system before they came to us, our own people really know little or nothing about better or more modern methods than those they now practice, and consequently are content to follow lines of least resistance.

"The result is that we are slow to progress in estimating methods. Nevertheless, in a number of instances the larger contracting concerns of this country are beginning to appreciate the thorough training the properly qualified quantity surveyor receives abroad, and have employed such surveyors as estimators for their firms. These are the men who, having adapted themselves to American methods and ideas, will above all others make the best quantity surveyors for this country.

"Perhaps the greatest handicap any radical departure in building methods has to contend with is the 'new arrival' in the field, who, like an architectural jack-in-the-box, usually pops up wherever he sees or imagines he sees, a chance to profit from the needs or tendencies of the architectural or building fraternity. The type is analogous to the pirates met with in commercial life whose purpose seems to be to prosper at the expense of the initiative and experience of others. The history of the quantity system in this country will probably offer no exception. It is highly desirable that we should have all the light and all the information we can get, whether in favor of or

against this system, but it is no less desirable that it comes from competent persons.

"The profession should not be misled by any whose training, education or experience does not qualify them to speak with authority regarding this subject which, thanks to many years of persistent effort, has now become a live question which the builders, architects and engineers of this country must consider. Builders are unquestionably becoming weary of figuring plans and giving architects and owners free tenders for buildings which may or may not ever be built, depending perhaps upon the owner's caprice or the size of his bank account concerning which even perfect specifications are necessarily silent. Moreover, the contractor's grievance presents but one phase of the matter which is now demanding attention in the interest of all concerned."

TABLE OF MEASUREMENTS.

7.92 inches make 1 link.
25 links make 1 rod.
16.50 feet make 1 rod.
4 rods make 1 chain.
10 chains make 1 furlong.
8 furlongs make 1 mile.
320 rods make 1 mile.
5,280 feet make 1 mile.
10 square chains make 1 acre.
160 square rods make 1 acre.
640 acres make 1 square mile.
43,560 square feet make 1 acre.
69 geographical miles make 1 degree.
1,728 cubic inches make 1 cubic foot.
27 cubic feet make 1 cubic yard.
Gunter's chain, 22 yards of 100 links.
A section is 640 acres.
A township is 36 sections, each 1 square mile.
A span is 9 inches.
A hand—horse measurement—is 4 inches.
A knot—nautical—is 6,086 feet.
A fathom—nautical—is 6 feet.
A stone is 14 pounds.
A square acre is 208 7-10 feet on each side.

Contents of Fields and Lots.

220x198	feet of land equals 1 acre.
440x 99	feet of land equals 1 acre.
110x396	feet of land equals 1 acre.
60x726	feet of land equals 1 acre.
120x363	feet of land equals 1 acre.
240x181½	feet of land equals 1 acre.
200x108 9-10	feet of land equals ½ acre.
100x145 2-10	feet of land equals ½ acre.

There are 12 city lots, 25x100 feet, in an acre with the streets cut through; 17 424-1000 city lots, 25x100 feet, in an acre without the streets cut through.

Square Measure.

Surface or Square Measure—144 square inches equal 1 square foot; 9 square feet, 1 square yard; 30¼ square yards, 1 measure; 20 feet on each side and you have about a square rod; 41 square rods, 1 square rood; 4 square roods, 1 acre; 640 acres, 1 square mile; 4,840 square yards, 1 lacre.

PAINTING.

The following table shows the number of superficial yards 1 gallon will cover:

	Yards.
Priming color	50
White zinc	50
White paint	44
Lead color	50
Black paint	50
Stone color	44
Yellow paint	44
Blue color	45
Green paint	45
Bright emerald green	25
Bronze green	45

One pound of paint will cover about four superficial yards the first coat, and about six yards each additional coat.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for April 1, 1917.

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Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)

Building News Publishing Co.,
Louis S. DeLone, President.

Sworn and subscribed before me this 22nd day of March, 1917.

John A. Fitzpatrick, Notary public.
(My commission expires April 8, 1917.)

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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Joseph M. DeLone.....Secretary and Treasurer

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Irving Dillon.....Editor

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage, Sixty-fifth and Haverford avenue, Philadelphia. Architect, Ralph H. Hothersall, 1431 Jerome street, Philadelphia. Owner, Mrs. Dora Mulligan, 157 South Texas avenue, Atlantic City, N. J. Brick, 1 story, 90x145 feet, slag roof, steam heating, electric lighting, cement floors, roof ventilators (gasoline storage system reserved). Plans in progress. Architect will take bids in about two weeks.

Apartment (alt. and add.), 719-21 Spruce street, Philadelphia. Architect, private plans. Owner, Frederick L. Shissler, 263 South Eighth street, Philadelphia. Brick and stone, 4 stories, 37x100 feet. Plans in progress. Owner will take bids in a few days.

Hall Building, Trenton, N. J. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner's name withheld. Brick, stone, steel and terra cotta, 2 stories, 90x90 feet. Plans in progress.

Post Office, State and Jackson streets, Media, Pa. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Brick, stone and hollow tile, 2 stories, composition roof, pine, cement and terrazzo floors, metal lath, waterproofing and dampproofing, roof ventilators, safety treads, tile and marble work (plumbing, heating, electric work and ventilating separate bids). Revised plans completed. Owners will be ready for bids in a few days. Bids due May 8th at 3 P. M.

Warehouse, 3120-24 Market street, Philadelphia. Architects, Love & Hunt, 277 South Eleventh street, Philadelphia. Owners, George & Borst, 277 South Eleventh street, Philadelphia. Brick, terra cotta, reinforced concrete and steel, 7 stories, 50x220 feet, slag roof, steam heating, electric lighting, marble and terrazzo work, rolled steel and hollow metal sash, rolled steel skylights, fire and kalamein doors, oak, pine and cement floors, hollow tile, metal lath, elevators, waterproofing, gasoline storage, wire work, iron stairs (sprinkler system reserved). Owners have received sub-bids.

Factory, Tioga, Amber and Venango streets and P. R. R., Philadelphia. Architects, Balingier & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, The Gill Glass Co., East York and Thompson streets, Philadelphia. Reinforced concrete, steel, brick and terra cotta, 3 stories, 248x184 feet, slag roof (elevators, heating and lighting reserved), cement, asphalt and maple floors, rolled steel sash and skylights, fire doors, fire escapes, iron stairs, waterproofing and dampproofing. Architects taking bids, due April 5th, from Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Barclay White & Co., 1713 Sansom street; Turner Concrete Steel Co., 1713 Sansom street; Warren-Moore Co., Commercial Trust Building; F. W. Mark Const. Co., Finance Building; Pomeroy Const. Co., 1609 Ransstead street; Cantrell Const. Co., Twenty-first and Sedgley avenue; Robt. Beatty & Bro., 2321 East Fletcher st., Philadelphia. Architects also taking sub-bids, due April 4th.

Garage, Fifth street, north of Fisher's avenue. Architect, Ralph H. Hothersall, 1431 Jerome street, Philadelphia. Owner, Mrs. Dora Mulligan, 157 South Texas avenue, Atlantic City. Brick, 1 story, 75x110 feet, slag roof (gasoline storage system reserved),

steam heating, electric lighting, metal lath, roof ventilators. Architect has received bids.

Cafe and Restaurant (alt. and add.), 34-36 South Fifteenth street, \$75,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Kugler's Restaurant Co., 1412 Chestnut street. Brick and stone, 2 stories. Plans in progress. Too early for details.

Saloon and Hotel (alt. and add.), 116 South Fifteenth street, Philadelphia. Architects, Henon & Boyle, 1. South Eighteenth street, Philadelphia. Owner, Margaret A. Kernan, northeast corner Fifteenth and Filbert sts. Brick, 2 stories, 18x62 feet, slag roof, pine and cement floors (plumbing, steam heating, electric work reserved), tile and marble work, metal lath. Architects have received bids.

Church and Sunday School, Third and Tabor road, Olney, Philadelphia. Architects, Duh-ring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owners, First Presbyterian Church of Olney, care of Rev. W. H. Wells, on premises. Stone, 1 and 2 stories and basement, 111x56 and 75x95 feet, slate and slag roof, maple and cement floors (electric work plumbing and heating reserved), metal lath, rolled steel skylights, ornamental iron work. Architects taking bids, due April 11th at noon. H. Rea Co., 1027 Wood street; E. E. Hollenback, Inc., 1804 Brandywine street; R. C. Ballinger & Co., 218 North Thirteenth st.; H. E. Baton, Twelfth and Sansom streets; F. L. Hoover & Sons, 1023 Cherry street; F. B. Davis, 240 North Sixteenth street; H. H. Burrell, 206 South Quince street; F. E. Wallace, 1220 Chancellor street, and H. E. Grau Co., 1709 Sansom street; Standard Const. Co., 1713 Sansom street, and F. W. Van Loon, Denckla Building, are figuring.

Laboratory and Office Building, Bridesburg, Philadelphia, \$11,000. Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford. Owners, hollow tile and plaster, 1 and 2 stories, 40x70 feet and 20x20 feet, slag roof (heating, plumbing, electric work reserved). Plans in progress. Architect will take bids in about three weeks.

Hospital (alt.), Race, west of Eighteenth street, Philadelphia. Architect, John T. Windrim, 1501 Commonwealth Building, Philadelphia. Owners, Wills Hospital, on premises. Consists of interior alterations, composition floors, electric lighting, tile and marble work, wire work. Architect has received bids.

Dwelling (alts. to Stores and Apartments), 3160 Kensington avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Michael Rock, Jr., 832 East Allegheny avenue, Philadelphia. Consists of general alterations, new store fronts, metal ceiling, fireproof partitions, marble and tile work, hot water heating, yellow pine floors, slag roof, combination fixtures. Owner will take bids in a few days.

Schools (2) (alt. and add.), Ninth and Lindley avenue and Rhawn and D' streets. Architect, J. Horace Cook, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, care of Wm. Dick, secretary, Nineteenth, above Chestnut street. Brick and stone, 2 and 3 stories, 48x92 feet and 88x33 feet, composition and slate roof, electric lighting, heating, marble work, rolled steel sash and skylights, fire doors, cement and maple

floors, hollow tile, metal lath, roof ventilators, metal weatherstrips, waterproofing, wire work. Owners taking bids, due April 5. H. E. Baton, Twelfth and Sansom streets; Wm. R. Dougherty, 1610 Sansom street; E. C. Durell, 1713 North Twenty-fourth street; McCloskey & Bahls, 1620 Thompson street; Melody & Keating, 1322 Race street; Standard Const. Co., 1713 Sansom street; H. H. Wehmeyer, 1004 Lehigh avenue; Mitchell Bros., 2125 Race street; George Dobbin, 414 South Forty-first street; Kramer Woodworking Co., Third and Cumberland streets; Thos. Reilly, 1616 Thompson street, are figuring.

Club (alt. and add.), northwest corner Thirteenth and Walnut streets, \$80,000. Architects, Melior, Meigs & Howe, 205 S. Juniper street, Philadelphia. Owners, Philadelphia Club, on premises. Brick, 2 stories, 30x100 feet ((plumbing, heating, electric work and (2) elevators reserved), slag roof, tile and marble work, hollow tile. Architects taking bids, due April 7. The following are figuring: H. E. Baton, Twelfth and Sansom streets; H. H. Burrell, 206 South Quince street; J. S. Cornell & Son, Land Title Building; George & Borst, 277 South Eleventh street; Thos. M. Seeds, Jr., Co., 1207 Race street; R. C. Balingier & Co., 218 North Thirteenth street; I. T. Shoemaker, 1328 Walnut street; Stacy Reeves & Sons, 2011 Market street.

Store and Dwelling (alt.) and Garage, 2551 Kensington avenue. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Wm. J. Geggis, on premises. Brick, 3 stories; garage, 1 story, 20x22 feet, slag roof, hot water heating, electric lighting, pine and cement floors. Architects have received bids.

Automobile Plant, Erie avenue and B sts., Philadelphia. Engineer, private plans. Owners, S. S. E. Co., 2300 Chestnut street, Philadelphia. Pumping station, concrete, 1 story, 30x40 feet; boiler house, brick, steel and concrete, 1 story, 30x60 feet; boiler foundations, tank supplies, plumbing and sewage, 1000 feet of new streets, etc. Owners ready for bids.

Store (alt.), southeast corner Seventeenth and Venango streets, \$500. Architect, Wm. H. Wooters, 816 W. Allegheny avenue, Philadelphia. Owners, Hendricks Hardware Co., on premises. Consists of new bulk front, tile and marble work (glass and paints reserved). Owners have received revised bids.

Garage, Fifth street, north of Courtland street, Philadelphia. Owner, John Donahue, 420 North Fifth street, Philadelphia. Architect, private plans. Brick, 1 story, 60x100 feet, slag roof, cement floors, steam heating, electric lighting, metal lath, roof ventilators. Owner has received bids.

Residence, Foulkrod and Castor avenue, Philadelphia. Architect, Wm. E. Gray, 1603 Real Estate Trust Building, Philadelphia. Owner, John B. Sidebotham, 4317 Griscom st., Frankford. Brick, 2½ stories, 47x33 feet and 17x16 feet, slate or single roof, pine and cement floors, warm air heating, electric lighting, tile work. Owner taking sub-bids.

Laundry Building (alt. and add.), 5722-32 Race street, Philadelphia. Architect, Chas. F. Seipp, 2003 South Seventeenth street, Philadelphia. Owners, Philadelphia Laundry Company, on premises. Brick, concrete and steel, 2 stories, addition 68x103 feet, slag and slate roof (electric work, boiler, machinery, heat-

ing tanks and (1) elevator reserved), steam heating, maple, cement and composition floors, fire doors. Owners have received bids.

Recreation Buildings, League Island Park, Philadelphia, \$125,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, City of Philadelphia, Dept. of Public Works, Geo. E. Datesman, director, City Hall, Philadelphia. Consists of pavilions, boat-house, toilet buildings, grand stand, etc. Plans will be completed in about two weeks. Owners will advertise for bids.

Paving, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Dept. of Public Works, Bureau of Highways, Geo. E. Datesman, director, room 232, City Hall. Consists of grading, paving (asphalt, granite block and wood block), etc. Owners taking bids, due April 5th at noon.

Garage, 5423 Lancaster avenue, Philadelphia. Architect, private plans. Owners, John Wanamaker, Thirteenth and Chestnut streets, Philadelphia. Brick, 2 and 1 story, 20x128 feet, slag roof, cement and pine floors, rolled steel skylights (heating, electric lighting and plumbing reserved). Owners have received bids.

Store Building (alt.), 1806 Market street, Philadelphia, \$5,000. Architects, Henon & Boyle, 10 S. Eighteenth street, Philadelphia. Owners, Dwight F. Fuller Estate, 10 S. Eighteenth street. Alterations to first floor, steam heating, electric lighting, tile, marble and terrazzo work, metal lath, store fixtures, metal bulks. Plans about completed. Architects will take bids.

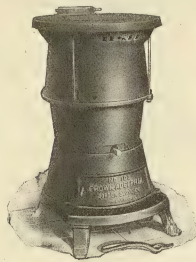
Motion Picture Theatre (alt.), 1535 Chestnut street, \$10,000. Architects, Henon & Boyle, 10 S. Eighteenth street, Philadelphia. Owners, Arcadia Theatre, on premises. Plumbing, ornamental plastering, steam heating, electric lighting, tile and marble work, metal lath. Plans in progress. Architects ready for sub-bids in a week.

Garage, 6484 Woodbine avenue, Overbrook, Philadelphia, \$2,000. Architect, private plans. Owner, Milton W. Young, Overbrook, Pa. Brick and plaster, 1 story, 18x22 feet, slate roof, cement floors, central plant heating, electric lighting. Owners will build.

Office Building (add.), Twenty-ninth and Grays Ferry road. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, Henry Bower Chemical Co., on premises. Brick, stone and terra cotta, 2 stories, 57x46 feet, asbestos roof (heating and lighting reserved), tile and marble work, fire doors, iron stairs, metal lath, roof ventilators, waterproofing, cement floors. Architects taking bids, due April 7th. Metzger & Fisher, Denckla Building; H. H. Burrell, 206 South Quince street; George & Borst, 277 South Eleventh street, are figuring.

Residence (alt. and add.), 2019 Walnut st., Philadelphia. Architect, Edwin H. Fetterolf, 1524 Chestnut street, Philadelphia. Owner, Dr. Ed. H. Piper, 1305 Pine street, Philadelphia. Brick, stone trimmings, 1 story and basement, addition 8x20 feet, slag roof (heating and lighting reserved), cement and pine floors, tile and marble work, roof ventilators. Architect has received revised bids.

Bank Building, Broad and Fairmount ave., Philadelphia. Architect, Philipp Merz, Pennsylvania Building, Philadelphia. Owners, Northwestern National Bank, Girard and Ridge avenues. Granite, marble and steel, 1



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and 2 stories and basement, 90x62 feet, composition roof, steam heating, electric lighting, tile and marble work, hollow metal or bronze sash, fire and kalamein doors, bank fixtures, terrazzo, cork tile and cement floors, hollow tile, metal lath, metal window guards, waterproofing. Architect taking bids, due April 13th. A. R. Raff Const. Co., 1635 Thompson street; E. E. Hollenbach, Inc., 1804 Brandywine street; Philip Haibach Const. Co., Twenty-sixth and Thompson streets; F. A. Havens & Co., 845 North Nineteenth street; Irwin & Leighton, 128 North Twelfth street; Cramp & Co., Denckla Building; Doyle & Co., 1519 Sanson street; Geo. A. Fuller & Co., Widener Building; Longacre Const. Co., Widener Building; Metzger & Fisher, Denckla Building; Nickson-Duggan Const. Corp., 1218 Chestnut street; Thos. Reilly, 1616 Thompson street, all of Philadelphia, and John Henry Miller, Franklin and Eutaw streets, Baltimore, Md., are figuring.

Twin Residence, Seventy-second avenue and Broad street, Oak Lane. Architect, private plans. Owner, Joseph Noerpel, Oak Lane, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, electric lighting, hardwood floors. Owner has received bids.

Twin Residences (Operation), Frankford, Frankford, Phila. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. A. Leehler, Broad and Germantown avenue. Brick, 2½ stories, slate roofs, slag and ain roof, hardwood floors, tile work, hot water heating, combination lighting. Plans in progress. Owner will take sub-bids in about two weeks.

Passenger Station (alt. and addition), Cheltenham avenue, Philadelphia. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Consists of new concrete platforms, steel and timber shelter sheds, slate roofs, stairways and elevator lift. Low bidders, F. A. Havens Co., 845 N. Nineteenth st., \$49,988; Roydhouse-Arcy Co., 112 North Broad street, \$54,788.

Store and Dwelling (alt.), 1611-13-15 Susquehanna avenue. Architect, Wm. H. Wooters, 816 Allegheny avenue, Philadelphia. Owner, C. A. Rowell, on premises. Brick, 3 stys., 40x45 feet, electric light, metal lath, hardwood floors and pine floors, new bulks, tile and marble work (plumbing and heating reserved). North Philadelphia Trust Co., Germantown and Erie avenues, taking revised bids due April 5th. Thos. C. Trafford, 1613 Sansom street, and Wark Yardley Co., 1737 Filbert street, are figuring.

Residences (41), Larchwood avenue, between Fifty-ninth and Sixtieth streets; Philadelphia. Architects, Private plans. Owners, Marshall & Gorman, 8 South Fifty-second street, Philadelphia. Brick, 2 stys., 16x33 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owners sub-letting. Work to be started in a few days.

Residence, Wissahickon avenue between Kitchens lane and Westview street, Germantown, \$25,000. Architect, not selected. Owner, John H. Earley, 2116 Tioga street.

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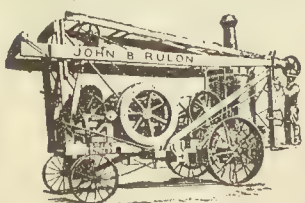
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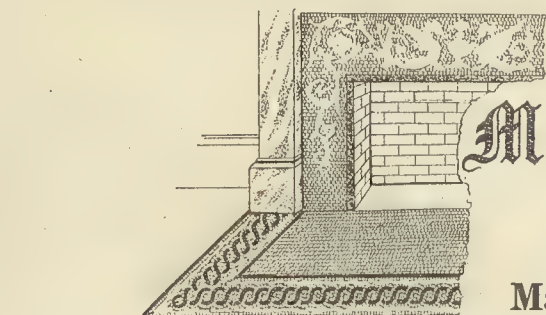
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Philadelphia. Brick, 2½ stys., size of lot, 168x200 feet. Work contemplated.

Piers, Nos. 46-48-53-55-57 (alts.), South Delaware avenue, Philadelphia. Architect, Private plans. Owner, Penna. R. R. Co., Broad Street Station, Philadelphia. Repairs to wood piles and floors. Owners, care J. H. Gumbes, Superintendent, Thirty-second and Powelton avenue, taking bids, due April 10th. A. L. Carhart, Hale Building; Lincoln H. Smith, Hale Building; Armstrong & Latta, Land Title Building; Jas. E. Brenneman, 1523 South Front street; Latta & Roberts, Drexel Building; Brann & Stuart, Commercial Trust Building, and Chas. McDermott, Penna. Building, are figuring.

Residence, Green and Westview streets, \$9,000. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Clarence B. Lane, 6924 MacCallum street, Philadelphia. Stone, 3 stys., 28x42 feet, slate roof, hot water heating, electric lighting, hardwood floors, (3) tile bathrooms. Architect taking bids due April 12th. The following are figuring: Robert Killough, Wayne avenue and Duval streets; Geo. A. Boyd, 5012 Schuyler street and Chas. Johnson, 5701 Boyer street, all of Germantown; Clement E. Lloyd, Jr., Eighth street and Sixty-sixth avenue, Oak Lane, and Specht & Sperry, Heed Building.

School (int. alt.), southwest corner of Broad and Jefferson streets, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Benj. F. Teller Memorial School, I. D. Levi, chairman, on premises. Consists of interior alterations (electrical work reserved), millwork, plastering, painting, metal lath. Owners have received bids.

Turntable (substructure), Erie avenue yard, Tulip and Emerald streets. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway,

Reading Terminal, Philadelphia. Reinforced concrete and steel, 100 feet diameter. Owners ready for bids, due April 11th at noon.

Garage, Fifty-fourth and Overbrook avenue, Wynnefield, Philadelphia. Architect, Milton S. Grawl, Harrison Building, Philadelphia. Owner, Isaac C. Sutton, Otis Building, Philadelphia. Stone, 1 story, 14x22 feet, shingle roof, cement floors, hot water heating, electric lighting, cement floors. Plans completed. Architect ready for sub-bids in a few days.

Residences (2), Oak Lane Park, Philadelphia. Architect, private plans. Owner, Clement E. Lloyd, Jr., Eighth street and Sixty-sixth avenue, Oak Lane. Stone and stucco, 2½ stories, 30x45 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress. Owner ready for sub-bids in two weeks.

Warehouse, Swanson street and Snyder avenue, Philadelphia, \$15,000. Architect, private plans. Owners, General Manufacturing Co., on premises. Brick and steel, 1 story, 91x80 feet, saw tooth and slag roof, vitrified brick on concrete floors, electric lighting, rolled steel sash. Plans completed. Owners will build.

Residences (85), Sixty-first and Elmwood avenue, Philadelphia. Architect, private plans. Owner, B. De Haven Harter, 1132 Land Title Building, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, hardwood floors, electric lighting. Owner sub-letting. Will start work in a few days.

Residence, Morris above Walnut Lane, Germantown. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Ralph A. Gibbs, care of Louis J. Kolb, West School House Lane, Germantown. Stone and hollow tile, 2½ stories, 48x30 feet and 22x26 feet, tile roof (plumbing, vapor heating, electric work, tile work and composition floors reserved), hardwood floors, hollow tile, electric lighting. Plans about completed. Architect will take bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Central Library, Nineteenth to Twentieth, Vine to Wood streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets. Limestone and granite, 3 stories, 207x328 feet, tile, slag and copper roof (steam heating, electric lighting, plumbing

and ventilating separate bids), (4) electric lighting, (6) book and freight elevators, marble, tile and cork floors, kalamein sash, steel doors, waterproofing and dampproofing, metal lath. Contract awarded to George A. Fuller & Co., Widener Building, Philadelphia.

Ice House (add.), Seventeenth and Juniata streets, Philadelphia. Architects, private

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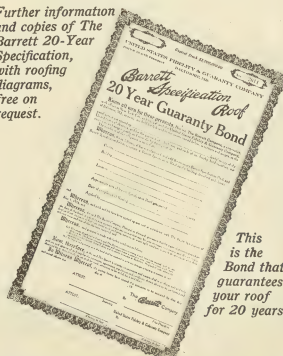
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Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick and concrete, 2 stories, 16x48 feet, slag roof, cement, wood and slate floors. Contract awarded to Wm. Linker Co., 831 Cherry street, Philadelphia.

Ice Sub-station, Twentieth and McKean sts., Philadelphia, \$15,000. Owners, Standard Ice Mfg. Co., 27th and South streets, Philadelphia. Brick, 1 story, 33x138 feet, slag roof, cement floors. Contract awarded to Herman Voight, 1251 North Twenty-eighth street, Philadelphia.

Residence, 1918 Race street, Philadelphia, \$50,000. Architect, Louis C. Hickman, Brown Bros. Building, Philadelphia. Owner, Jas. P. McNichol, Lincoln Building, Philadelphia. Brick, 3 stories, 40x106 feet, slate and slag roof, hardwood floors (heating not decided), electric lighting, tile and marble work, metal lath. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Factory, Hunting Park avenue and King street, Philadelphia, \$55,000. Architects, Balingier & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, Edw. G. Budd Mfg. Co., Twenty-fifth and Hunting Park avenue, Philadelphia. Brick, steel and reinforced concrete, 4 stories, 175x124 feet, slag roof, cement floors, steel sash, waterproofing, rolled steel sash, safety treads, rolling steel shutters. Contract awarded to Warren Moore Co., Commercial Trust Building.

Convent and School (alt. and add.), Thirty-eighth and Spring Garden streets, \$131,000. Architect, E. F. Durang & Son, 1220 Locust street. Owners, St. Agatha's R. C. Church, care of Rev. M. J. Donovan, on premises. Stone, 3 stories, 60x128 feet, slate roof, steam heating, electric lighting, fire tower, metal lath, slate roof, cement work, hardwood and composition floors. Contract awarded to John McShain, 1610 North street, Philadelphia.

Open Hearth No. 3, Nicetown, Philadelphia, \$22,000. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Reinforced concrete and steel, 2 stories, 17x56 feet, slag roof, concrete floors, hot water heating, roof ventilators. Contract awarded to Barclay White & Co., 1713 Sansom street.

Store (alt.), 624-26 South Second street, Philadelphia, \$3,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Columbia Record Stove Co., on premises. Brick, 3 and 4 stories, 38x50 feet, pine floors, flush bulks, metal ceilings. Contract awarded to Bierns & Cylinder, 5288 Mifflin street.

Factory and Office Building, Swanson and McKean streets, Philadelphia, \$30,000. Architect, Wm. C. Furbér, 418 Walnut street, Philadelphia. Owners, India Refining Co., on premises. Brick, 1 and 2 stories, 64x45 feet and 61x46 feet, asphalt and asbestos roof, (elevator and heating reserved), pine and maple floors, electric lighting, hollow metal skylights, hollow metal doors. Contract awarded to J.

Richard Jackson, Perry Building, Philadelphia.

Store House, Wissinoming, Philadelphia, \$7,500. Architect, private plans. Owners, Hellwig Silk Dyeing Co., Ninth and Buttonwood streets. Brick, 1 story, 100x288 feet, slag roof, plank floors (heating and lighting reserved), fire doors. Contract awarded to F. W. Lan Loon, Denckla Building, Philadelphia.

Chapel, Tenth street and Northeast Boulevard, Philadelphia, \$40,000. Architects, Ralph B. Bencker and Price & McManahan, Bellevue Court Building. Owners, First Christian Church, Rev. Irving S. Chenoweth, 1418 Euclid street, Philadelphia. Stone, brick and concrete, 2 stories and balcony and basement, 74x53 feet, tin, slate and slag roof, steam heating, electric lighting, metal lath, waterproofing, fire doors, tile and marble work, cement and maple floors. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Marquise, Thirteenth and Callowhill streets, Philadelphia, \$1,500. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, National Metal Edge Box Co., 1217 Callowhill street. Corrugated iron and glass, 76x120 feet. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Store and Apartments, northeast corner Sixteenth and Columbia avenue, \$6,000. Architect, F. E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Max Roetenberg, 1419 Ridge avenue, Philadelphia. Brick, 3 and 2 stories, addition 17x27 feet, tin, slate and tile roof, oak and pine floors (electric work, heating and decorating reserved). Contract awarded to B. Bornstein, 1510 North Franklin street, Philadelphia.

Storage Building (alt. and add.), 2335-53 Sedgley avenue, \$7,000. Architect, private plans. Owners, Tasty Baking Co., on premises. Reinforced concrete and brick, 3 stories, 60x78 feet, slag roof. Contract awarded to Jos. F. Myers, Jr., & Co., 1237 Ridge ave.

Club House (add.), Carpenter and Emlen streets, Germantown, \$50,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owners, Automobile Club of Germantown, on premises. Stone, 1 story, 64x109 feet, slag roof, oak floors, metal lath, tile work, steam heating. Contract awarded to J. Sims Wilson Co., 1125 Brown street.

Garage, Sixteenth and Ingersoll streets, Philadelphia, \$40,000. Architect, Amos W. Barnes, Hermit & Righter streets, Roxborough. Owner, Brighton Garage, on premises. Brick, steel and reinforced concrete, 2 stys., 88x105 feet and 52x97 feet, slag roof, cement floors, metal lath, rolled steel sash, (plumbing, heat, electric work and (1) elevator, reserved). Contract awarded to P. Haibach Cont. Co., Twenty-sixth and Thompson streets.

Garage, Broad street and Oak Lane avenue, Oak Lane, Philadelphia. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Reuben Windisch, on premises.

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Frame and shingle, 1½ stories, 22x30 feet, shingle roof, cement floors, gas heating, electric lighting, gasoline storage system. Contract awarded to Edw. B. McCall, Oak Lane, Philadelphia.

Factory (add.), 830 North Third street,

Philadelphia, \$15,000. Architect, private plans. Owners, Royal Pioneer Paper Box Co., 934 North Third street, Philadelphia. Brick and steel, 3 stories, 25x105 feet, slag roof, pine floors, metal sash, fire doors, tile work. Contract awarded to J. Rose & Son, 5121 Brown street. (Note change in contractor.)

PENNSYLVANIA

Construction News

Residence (alt. and add.), Pine Forge, Schuylkill County, Pa. Architects, Duhring, Okie & Ziegler, 1218, Chestnut street, Philadelphia. Owner, W. McM. Rutter, Pine Forge, Pa. Stone, 2½ stys., (plumbing, heating and electric work, res.), shingle roof, hardwood floors. Architects taking bids due April 11th. R. C. Ballinger & Co., 218 North Thirteenth street, L. H. Focht & Son, and Beard Const. Co., both of Reading, and F. H. Kaiser & Co., Pottstown, Pa., are figuring.

Church, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Upper Dublin Brethren Church, Rev. H. M. Garman, 4637 North Thirteenth street, Philadelphia. Stone, 1 sty. and basement, 50x80 feet, slate roof. Plans in progress.

Turntable, Reading, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owner, Phila. & Reading R.R. Co., Reading Terminal, Philadelphia. Reinforced concrete and steel, 100 feet. Owners taking bids due April 6th. A. L. Carhart, Hale Building, Philadelphia, is figuring.

High School, Upper Darby, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, Board of Education, School District of Upper Darby, care of J. Milton Lutz, Secretary, First National Bank, Clifton Heights, N. J. Stone, 2 stys., 110x200 feet, central wing 60x72 feet, slate and security roof, reinforced concrete floors, maple floors, tile work, hollow metal skylights, fire doors, safety treads, dampproofing, (heating, (direct and indirect system of steam heating, including ventilating) electric work and plumbing, separate bids). Owners taking bids due April 13th, at noon. The following are figuring: Franklin Eng. & Const. Co., Bulletin Building; Raith Const. Co., 304 Master street; P. J. Hurley, 1322 Cherry street; Standard Const. Co., 1713 Sansom street; Eugene Tourison, 1001 Chestnut street; W. W. Anstine & Co., 1218 Filbert street; Nickson Duggan Const. Corp., 1218 Chestnut street; Alex. Chambley, 243 South Tenth street, Philadelphia; Lansdowne Construction Co., Lansdowne, Pa., and Butz & Clader, Allentown, Pa.

Farm House (alt. and add.), Chester Springs, Chester County, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, Howard S. Rue, 40 North Fourth street, Philadelphia. Stone, 2½ stys., add. 20x20 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Architect taking bids due April 7th. Frank A. Young, and Frank S. Boileau, both of Phoenixville, Pa., and Chris. Woodland, and Herbert Wingolth, both of Chester Springs, Pa., are figuring.

Guinea-Pig Stations. (3), Glenolden, Pa. Architect, private plans. Owners, H. K. Mulford Co., 428 South Thirteenth street, Philadelphia. Hollow tile, shingle roofs, cement floors. Owners taking bids due April 5th. The following are figuring: Abel Bottoms & Sons Co., 3611 Walnut street; Graham-Campion Co., Otis Building; Thos. M. Seeds, Jr., Co., 1207 Race street; Pomeroy Const. Co., 1609 Ranstead street, and Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Residences. (3), Cynwyd, Pa. Architect, Frank Seeburger, Penna. Building, Philadelphia. Owner, Name withheld. Hollow tile and plaster, 2½ stys., 25x37 feet, shingle roof, hot water heating, electric lighting, hollow tile, (heating and electrical work, reserved). Architect taking bids. Mowrer Bros., Merion, Pa.; J. Howard Roberts, Lansdowne, Pa., and John E. Kearney, 327 North Sixty-third street, are figuring.

Shipbuilding Plant, Marcus Hook, Pa. Architects, private plans. Owners, Fort Mifflin Shipbuilding Co., 1126 Widener Building, Philadelphia. Consists of shipbuilding slips, machine, tool and blacksmiths' shops, etc. Owners will take sub-bids in about ten days.

Residence, Springfield, Pa. Architects, Seeburger & Rabenold, Penna. Building, Philadelphia. Owner, Frank C. Birch, 941 South Fifty-ninth street, Philadelphia. Frame and plaster, 2½ stys., 26x34 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architect has received bids.

Cottage (1), and Twin Cottages (4), Cornwells, Bucks County, Pa. Architect, Philipp Merz, Pennsylvania Building, Philadelphia, Pa. Owner's name withheld. Brick,

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hollow tile and plaster, 2 stys., 24x42 feet and 35x40 feet, shingle roof, cement and pine floors, steam heating, electric lighting. Architect taking bids due as soon as possible. E. E. Hollenback, Inc., 1804 Brandywine street; W. D. Lukens, North Wales, Pa.; A. Hofmeier & Sons, Andalusia, Pa., and Frank Snyder, Bristol, Pa., are figuring.

Residence (alt. and add.), Bryn Mawr, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Stanley G. Flagg, Jr., Bryn Mawr, Pa. Brick, stone and stucco, 3 stys., slate roof, hot water heating, electric lighting, tile and marble work, hollow tile work, metal weatherstrip, wire work. Architect has received bids.

Factory, Power House and Office Building, Fifth and Penn streets, Chester, Pa. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia, (Alt. and add.) Owners, McCausland Eng. Co., Penna. Building, Philadelphia. Brick, steel and concrete, 2 and 3 stys., 75x317 feet, 1 sty., 82x58 feet, and 1 sty. 46x33 feet, slag roof, (steam heating and electric work, reserved), composition, cement and maple floors, fire doors, metal window guards, wire work. Architects taking bids due April 7th. Philip Haibach Const. Co., Twenty-sixth and Thompson streets, H. E. Grau Co., 1709 Sansom street, Wm. R. Dougherty, 1610 Sansom street; E. R. Hall & Bro., 34 South Seventeenth street, Philadelphia, and Wm. Provost, Chester, Pa., are figuring.

Residences (2), Norristown, Pa., \$7,400. Architect, S. Wallace Roberts, Norristown, Pa. Owner, Jacob Edwards, Norristown, Pa. Brick, 2½ stys., 46x16 feet, slag roof, steam heating, electric lighting, yellow pine floors. Plans completed.

Residences (5), Norristown, Pa. \$18,500. Architect, S. Wallace Roberts, Norristown, Pa. Owner, I. B. Haupt, Norristown, Pa. Brick, 2½ stys., 16x52 feet, slag roof, steam heating, electric lighting. Plans completed. Owner will take bids.

Department Store. (Add.), Norristown, Pa., (Main street.) Architect, S. Wallace Roberts, Norristown, Pa. Owner, B. E. Block, Main street, Norristown, Pa. Brick, 4 stys., 40x62 feet, slag roof, wood floors, electric lighting, waterproofing, fire doors, sprinklers, elevators. Plans completed.

Residences (10), Norristown, Pa. \$4,200. Architect, S. Wallace Roberts, Norristown, Pa. Owner, Jos. A. Bailey, Norristown, Pa. Brick, 2½ stys., 14x52 feet, slag roof, steam heating, electric lighting, yellow pine floors. Plans completed.

Office Building and Stone Cutting Shop, Norristown, Pa. Architect, Howard G. Peppercorn, Belfry, Pa. Owner, W. M. Sullivan, Norristown, Pa. Brick, 1 and 2 stys., 45x160 feet, slag and tin roof, hot water heating, electric lighting, yellow pine floors. Owner,

School, Dallas Township, Pa. Architect, Ed. Finch, People's Bank Bldg., Wilkes-Barre, Pa. Owner, School Board of Dallas Township, Edw. Roberts, Secretary, Dallas Township, Pa. Frame, 1 and 2 stories, 62x82 feet, asphalt, slate or asbestos roof,

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School (8 rooms), Alden, Newport Township, Pa. Architect, Owen McGlynn, Simon Long Bldg., Wilkes-Barre, Pa. Owner, School Board of Newport Township, Wanamie, Pa. Brick (fire proof construction), 2 stories, 95x75 feet, slag roof, fan system of heating, electric lighting, metal lath, wood floors. Plans in progress. Will take bids in one week.

Factory Building, Jackson and N. Penn avenues, Wilkes-Barre, Pa. \$12,000. Architect, Henry Maier, Coal Exchange Bldg., Wilkes-Barre, Pa. Owner, Penn Mfg. Co., Wilkes-Barre, Pa. Slow burning construction, 2 stories, 37x111 feet, slag roof, steam heating, electric lighting, (1) elevator. Plans about completed. Owners will take bids in a week.

Fire Houses (2), Olyphant, Pa. \$20,000. Architect, John J. Howley, Traders' Bank Bldg., Scranton, Pa. Owner, Dept. of Public Works, Borough of Olyphant, Olyphant, Pa. Brick, 2 stories, 30x66 feet, slate roof, steam heat, electric lighting, cement floors. Owners will take bids in a week.

Factory (add), Greenridge street, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Bldg., Scranton, Pa. Owners, J. R. Fleming & Son Co., Inc., Scranton, Pa. Brick, 2 stories, 80x80 feet, slag roof, steam heating, electric lighting, yellow pine and concrete floors. Plans in progress.

Office Building, White Haven, Pa. \$18,-

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000. Architect, Geo. F. Schroeder, Weitzenkorn, Bldg., Wilkes-Barre, Pa. Owner, Wilmot Eng. Co., White Haven, Pa. Brick, 2 stories, 34x82 feet, slag roof, steam heating, electric lighting, tile and marble work, yellow pine, hardwood and concrete floors, metal lath, waterproofing. Architect has received bids.

Residence, Penna. avenue and Sunset street, Scranton, Pa. \$15,000. Architect, Frank J. Miller, People's Bank Bldg., Scranton, Pa. Owner, G. A. Bender, Scranton, Pa. Frame and stucco, 2½ stories, 43x39 feet, asbestos shingle roof, vapor or hot water heating, combination lighting, hardwood floors. Architect has received bids.

Passenger Shelter, St. Davids, Pa. Architect, M. of W. Dept., Broad St. Station, Phila. Owners, Penna. R. R. Co., Broad St. Station, Phila. Steel and timber, 16x100 feet, slate roof. Plans completed. Owners, care of W. B. McCaleb, Harrisburg, Pa., will take bids.

Residence, Gwynedd Valley, Pa. Architects, Druckenmiller & Williams, Land Title Bldg. Owner, name withheld. Stone foundation, hollow tile and plaster, 2½ stories, 60x22 feet, wing 35x20 feet, tile roof, (hot water heating and electric lighting reserved), oak floors, tile work. Plans in progress. Will be ready for bids in ten days.

Double House, Bowman street, Wilkes-Barre, Pa. Architect, private plans. Owner, Louis Goldstein, Wilkes-Barre, Pa. Frame, 2½ stories, 36x42 feet, slate roof, wood floors, hot air heating, electric lighting. Owner ready for general bids.

Residence and Garage, Merion, Pa. \$35,000. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Phila. Owner, Edw. C. B. Fletcher, West End Trust Bldg., Phila. Stone and brick, 3 stories, 104x36 feet, and 19x16 feet, and 1 story 16x20 feet, slate roof, pine floors, vapor vacuum heating, electric lighting, tile and marble work, hollow tile, wire work. Architect taking bids due April 11. John N. Gill & Co., Otis Bldg.; Fred Elridge & Son, 5522 Germantown avenue; James H. Wells, Otis Bldg.; Ward-Yardley Co., 1737 Filbert st.; J. Paul Emrey, North Wynnefield, Pa., and Metzger & Fisher, Denckla Bldg., Phila., are figuring.

Residences (10), Norristown, Pa. \$2700. Architect, S. Wallace Roberts, Norristown, Pa. Owner, Levens Quarry Co., Norristown, Pa. Brick or frame, 2½ stories, slag roof. Work contemplated.

Department Store (alt.), Main and De Ralph streets, Norristown, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, L. E.

Taubel, Norristown, Pa. Store front, electric lighting, slag or asbestos roof, yellow pine and maple floors, (store fixtures and electric wiring, reserved). Architect and owner have received bids.

Theatre Building, Shamokin, Pa. \$90,000. Architect, W. H. Lee, Shamokin, Pa. Owner, name withheld. Brick, 1 sty., 72x125 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, fire doors, wood floors, metal lath. Plans in progress.

Residence, Bethayres, Pa. \$8,000. Architect, E. Kenny Crothers, 5215 Chestnut street, Philadelphia. Owner, O. W. O'Neill, Jr., 325 Walnut street, Philadelphia. Hollow tile and plaster, 2½ stys., 42x24 feet, wing 12x16 feet, shingle roof, hot air heating, electric lighting, metal lath, hardwood floors, tile work. Architect taking bids due April 12th. The following are figuring: Milton S. Grawl, Harrison Building; E. J. Kreitzburg, 1345 Arch street; Jas. B. Flounders, 1329 Arch street; A. A. Raff, Const. Co., 1635 Thompson street, Philadelphia; Jos. Ashby, Second street Pike, Fox Chase; Fesmire Bros., Glenside, Pa.; W. John Stevens, Inc., Wyncote, Pa.

Residence, near Overbrook, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Le Roy P. Leas, care Leas & McVitty, 305 Vine street, Philadelphia. Stone, 2½ stys., 33x110 feet, shingle roof, (vapor heating, electric lighting, plumbing and tile work, reserved), hardwood floors. Architect taking bids due April 9th. J. Sims Wilson Co., 1125 Brown street; John N. Gill & Co., Otis Building; Geo. L. Croll, Bryn Mawr, Pa.; J. D. Lengle, Wayne, Pa.; Frank H. Mahan, Ardmore, Pa., and Milton W. Young, Overbrook, Pa., are figuring.

Residences (10), Bethlehem, Pa., \$25,000. Architects, Custer & Selzer, Camden, N. J. Owner's name withheld. Brick and hollow tile, 2 stories, 28x17 feet, slag roof and slate roofs, hot air heating, electric lighting. Architects ready for bids.

Webster Building (add.), Williamsport, Pa. Architect, Arthur F. Rainhard, Masonic Temple, Williamsport, Pa. Owners, School Board of Williamsport, Williamsport, Pa. Brick, 2 stories, 16x25 feet and 35x55 feet, slate roof, wood floors, metal lath. Plans in progress.

Garage, Duncannon, Pa. Architect, Charles H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Mr. Kennedy, Duncannon, Pa. Plans about to be started. Too early for details.

Reservoir, Ringston, Pa. Engineer, M. C. Krouse, Williamsport, Pa. Owners, City of Ringston (Commissioners of Ringston), Ringston, Pa. Concrete. Owners taking bids, due April 14th.

Bridge, Newberry-Duhoistown, Williams-

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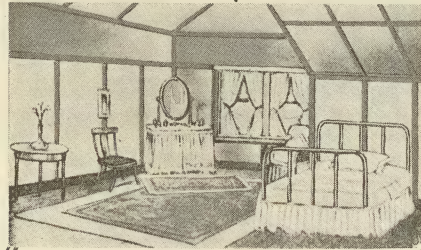
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port, Pa. Engineer, Mark C. Krouse, Williamsport, Pa. Owners, City of Williamsport, County Commissioners, Williamsport, Pa. Reinforced concrete, 15 spans, 1,500 feet long. Plans in progress.

Bridge, Montgomery, Pa. Engineer, M. C. Krouse, Williamsport, Pa. Owners, City Commissioners, City of Montgomery, Pa. Reinforced concrete. Plans in progress.

Residence, Penfield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John L. De Mar, care of architect. Frame, 2½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting, tile work, hardwood floors. Plans in progress. Architect ready for bids in one week.

Stable (alt. and add.) and Garage, Villa Nova, Pa. Architects, Bailly & Bassett, 421 Chestnut street, Philadelphia. Owner, Dr. William Klapp, Villa Nova, Pa. Stable, frame, 1½ stories; garage, hollow tile and plaster, 1½ stories, 25x50 feet, shingle roof, cement floors (heating, plumbing and electric work reserved). Plans in progress. Architects ready for bids in ten days.

Residence, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, A. Newton Roberts, West Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 46x32 feet, slate roof, hot water heating, electric lighting, vacuum cleaning system, hardwood floors, plumbing and drainage, cement and brick work. Architect taking bids, due April 12th. The following are figuring: Speech & Sperry, Heed Building; F. T. Mercer Co., 1706 Delancey street, Philadelphia; Ochs Const. Co., 26 Tilghman street, and Tilghman H. Moyer, 424 Hamilton street, both

of Allentown, Pa.; Howard E. Stoudt, C. F. Schwartz, 404 Washington avenue; Forrest Speech, and Speech Bros., all of Bethlehem, Pa.

Piggery, Croyden, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, Walnut Grove Farm, Croyden, Pa. Hollow tile, 1½ stories, 28x50 feet, asphalt shingle roof, cork and cement floors. C. Y. Stradling, Oxford Valley, Pa., is taking sub-bids.

Residence, East Downton, Pa. Archi-

tect, Robeson Lea Perot, 34 South Seventeenth street, Philadelphia. Owner, Francis D. Godley, Haverford, Pa. Frame or hollow tile and stucco, 2½ stories, 25x43 feet and 11x18 feet, shingle and tin roof, pine floors (hot air heating and electric work reserved). Architect taking bids, due April 9th. Elfreth & Co., 1633 Ranstead street, Philadelphia; Wm. H. Jones, West Chester, Pa., and Wm. Moore and George Fisher, both of East Downton, Pa., are figuring.

PENNSYLVANIA

Contracts Awarded

School (Parochial), William street, Pittston, Pa. \$15,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. John the Baptist's Church, care Rev. A. Jurica, Pittston. Brick, 3 stys., 75x24 feet, slag roof, steam heat, electric lighting metal lath, wood floors. Contract awarded to Alaimo Bros., Pittston, Pa.

Parish House, Williams street, Pittston, Pa. \$10,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owner, St. John the Baptist's R. C. Church, care Rev. A. Jurica. Brick, 2½ stys., 34x40 feet, slate roof, steam heating, electric lighting, hardwood floors, tile and marble work. Contract awarded to Alaimo Bros., Pittston, Pa.

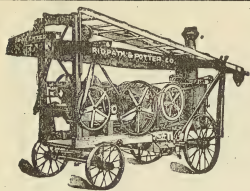
Residence, Rutter avenue, Darnston, Pa.

\$7,000. Architect, Frank Sahn, Second National Bank Building, Wilkes-Barre, Pa. Owner, J. L. Sterns, South River street, Wilkes-Barre, Pa. Stucco, 2½ stys., 28x40 feet, slate, shingle or tile roof, steam heating, electric lighting, metal lath, hardwood floors. Contract awarded to Curtis & Co., Wilkes-Barre, Pa.

Residence, Wyoming avenue, Forty Fort, Pa. \$7,000. Architect, Frank Sahn, Second National Bank Building, Wilkes-Barre, Pa. Owner, B. M. Hessler, North Main street, Wilkes-Barre, Pa. Stucco, 2½ stys., 28x40 feet, slate or shingle roof, steam heating, electric lighting, metal lath, hardwood floors. Contract awarded to W. J. Robbins, Trucksville, Pa.

Cottage, No. 3, Haverford, Pa. Archi-

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tecs, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Haverford College, Haverford, Pa. Frame, 2½ stys., 36x36 feet, shingle roof, electric lighting, pine floors, (hot air heating, reserved). Contract awarded to Charles C. Pace, Merion, Pa.

Bridge, Mont Clare, (Montgomery County, Pa.) \$15,000. Engineer, B. H. Davis, 17 Battery Place, New York City. Owner, Montgomery County Commissioners, Norristown, Pa. Reinforced concrete. Contract awarded to Needs Brooks Const. Co., Perkiomenville, Pa.

Garage, Merion, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, Mrs. Edith C. B. Stuart, Merion, Pa. Stone and frame, 1½ stys., 29x23 feet, shingle roof, electric lighting, hot water heating, cement and pine floors. Contract awarded to Charles C. Pace, Merion, Pa.

Bridge, over Lehigh street, Allentown, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owner, Philadelphia & Reading R. R. Co., Reading Terminal. Steel and concrete. Contract awarded to the Phoenix Bridge Co., 410 Walnut street, Philadelphia.

Power House, Erie, Pa. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owner, Erie Lighting Co., Erie, Pa. Brick, reinforced concrete and steel. 1 sty., slag roof, cement floors. Contract awarded to Henry Shenk, Erie, Pa.

Theatre Building, Independence and Ansharite street, Shamokin. \$50,000. Architect, W. H. Lee, Shamokin, Pa. Owner, Geo. J. Higgins, Shamokin, Pa. Brick and terra cotta, 3 stys., 50x160 feet, slag roof, steam heating, electric lighting, metal lath, concrete floors, tile and marble work, hollow tile, (heating, plumbing and electric wiring, reserved). Contract awarded to East End Lumber Co., Shamokin, Pa.

High School, Exeter (Luzerne County), Pa. \$50,000. Architect, John J. Hawley, Traders' Bank Building, Scranton, Pa. Owner, School District of Exeter, Exeter, Pa. Brick, slow burning, 2 stys. and basement, 90x75 ft. Barrett roof, steam heating, electric lighting, metal lath, concrete floors. Contract awarded to Andrew Bros. lin, Summit Hill, Pa.

Residences (8), Sharon Hill, Delaware County, Pa. \$18,000. Architects, Folsom & Stanton, 1323 Walnut street, Philadelphia. Owner, Mrs. Maud M. Neel, care Architect. Brick, 2 stys., 20x30 feet, shingle roof, (hot water heat, plumbing tile work, electric work and cement walks, reserved). Tile work, metal lath. Contract awarded to McCloskey & Bahls, 1620 Thompson street.

Mill No. 6 (alt.), Darby, Pa. \$1,400. Engrs., Willard Case & Co., 17 Battery Place, New York City. Owners, Griswold Worstod Co., Darby, Pa. Brick, (toilet enclosures), cement floors, gypsum blocks. Contract awarded to Menaghan & Losse, Inc., 3016 Chestnut street.

Residence, Southampton, Pa., \$8,500. Architect, Harry Parker, 129 South Fifth street, Philadelphia. Owner, Wm. B. Slatko, care of architect. Stone and frame, 3 stories, 35x48 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Frank Heston, Churchville, Pa.

Miscellaneous Construction News

Residence (alt. and add.), Wilmington, Del. Architects, Brown & Whiteside, duPont Bldg., Wilmington, Del. Owner, Wm. Coyne, Wilmington, Del. Brick and hollow tile, 3 stories, 50x35 feet, hardwood floors, tile and marble work, hollow tile. Plans in progress.

Church, 4th and Grant avenue, Wilmington, Del. \$100,000. Architect, J. J. Kennedy, Ford Bldg., Wilmington, Del. Owner, St. Thomas' R. C. Church, on premises (Rev. J. J. Connelly). Stone, 1 story, 75 feet high, 80x160 feet, slate roof, tile floors, indirect heating, combination lighting, tile, marble and terrazzo work, hollow tile, metal lath, waterproofing. Sketches completed.

Barn, Singery, Md. Architect, E. C. May, duPont Bldg., Wilmington, Del. Owner, name withheld. Stone, 2 stories, 36x100 feet, slate roof, concrete and wood floors, electric lighting. Architect has received bids.

Church, Woodlawn and Lancaster avenues, Wilmington. \$15,000. Architect, E. Canby May, duPont Bldg., Wilmington, Del. Owner, Silverbrook Trustees, on premises. Stone, brick and stucco, 2 stories, 100x42 feet, tin roof, steam heating, electric lighting, metal lath, yellow pine floors. Architect has received bids.

Masonic Temple, Mill and High streets, Akron, Ohio. Architects, assoc., Harpster & Bliss, Henry & Murphy and Harlan E. Shinnin, Nantucket Bldg., Akron, Ohio. Owner, Masonic Lodge, Akron, Ohio. Brick, steel, stone and terra cotta, 7 stories, 35x134 feet, (heating, lighting, plumbing and elevator, reserved), oak, pine and cement floors, composition roof, tile, marble and terrazzo work, hollow tile, metal lath, hollow metal doors, roof ventilators, metal weatherstrips, waterproofing. Architects have received bids.

Gun Shop, Washington, D. C. Architect, private plans. Owners, U. S. Govt., F. R. Harris, chief of Bureau, Washington, D. C. Reinforced concrete, steel and hollow tile, 1 story, 50x215 feet, composition and slag roof, rolled steel sash, fire doors. Owners taking bids April 7. Irwin & Leighton, 126 N. 12th street, are figuring.

Residence (alt.), Old York Road, Jenkintown, Pa. Architect, Lawrence Visscher Boyd, Harrison Building, Philadelphia. Owner, Watson F. Fuqua, Land Title Building, Philadelphia. Stone, consists of exterior alterations, 2½ stories, slag and tin roof, plastering mill work, quarry tile floors, ornamental iron work. Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Garage, Haverford, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, T. Mitchell Hastings, 1713 Sansom street, Philadelphia. Frame and stucco, 1 story, 20x23 feet, shingle roof, cement floors. Contract awarded to Wm. H. Eddleman & Sons, 453 Green Lane, Roxborough, Pa.

Commonwealth Hotel (alt.), Second and Market streets, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, Commonwealth Hotel, on premises. New store fronts. Contract awarded to Frank Sassaman, 1710 North street, Harrisburg.

Sales and Service Building, Syracuse, N. Y. Architect, Philip S. Tyre, 1509 Arch street, Phila. Owner, name withheld. Brick, 1 story and basement, 60x80. Plans in progress. Too early for details.

Fish Market Packing House and Lunch Rooms, Water street between 11th and 12th streets, Washington, D. C. Architect, S. Ashford, Washington, D. C. Owners, U. S. Govt. Office of Dist. Com., Washington, D. C. Brick, 2 stories, 42x53 feet, slate roof, (heat, res.), cement floors, metal lath, rolled steel sash, elevators, wire work. Low bidders, Warren-Moore & Co., Commercial Trust Bldg., \$115,544; Mellon Const. Co., 11th and H streets, N. W., Washington, D. C., \$115,995.

Residences (2), (1 & 2 Family), Lewisburg, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owner, Hon. A. W. Johnson, Lewisburg, Pa. Frame, 2 stys., 24x35 feet and 20x30 feet, shingle roof, hot air heating, electric lighting, wood floors. Plans in progress.

Factory (add.), Williamsport, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owner, U. S. Sand Paper Co., Williamsport, Pa. Brick, 2 stys. Plans in progress. Too early for details.

Silk Mill, Williamsport, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owner, name withheld. Brick, 2 stys., 50x100 feet, slag roof, steam heating, electric lighting, tile work, rolled steel sash, wood floors. Plans in progress.

Hotel, Apt. House and Store, Shamokin, Pa. Architect, J. I. Nolan, May Building, Shamokin, Pa. Owner, John Glowa, care Architect. Brick, 3 stys., 28x190 feet, slag roof, yellow pine floors, steam heating, electric lighting, tile and marble work, kalamein doors, store and bar fixtures, fire escapes, iron stairs, hollow tile, metal lath, dumbwaiters, wall coping, roof ventilators, metal ceilings, waterproofing, art stone. Plans in progress. Architect and owner will be ready for bids in about ten days.

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NEW JERSEY Construction News

Residence, Merchantville, N. J. \$6,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Jos. H. Carr, Security Trust Building, Camden, N. J. Frame, 2½ stys., 29x38 feet, shingle roof, hot water heating, combination lighting, gum and tile floors, tile work, (heating, plumbing and electric wiring, reserved). Architects taking bids due April 6th. E. F. Turner Co., 828 Broadway; H. C. Sharp, 410 Main street, Camden, N. J.; C. L. Stewart, Woodlynne, N. J.; Martin James, Merchantville, N. J.; H. W. Applegate, Merchantville, N. J., and Phila. Const. Co., 9 South Eighteenth street, Philadelphia, are figuring.

School Building, Glassboro, N. J. \$65,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Board of Education, Tshp. of Glassboro, N. J. Brick and concrete, 2 stys. and basement, 112x70 feet, slag roof, steam heating, combination lighting, metal lath, fire doors, ventilators, safety treads, tile and marble work, composition and wood floors, (heating, ventilating, plumbing and electric work, reserved). Plans in progress.

Store (alt. and add.), 302 Broadway, Camden, N. J. \$5,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Friont Music Co., 904 Broadway, Camden, N. J. Brick, 2 stys., 16x90 feet, slag roof, hot water heating, North Carolina Pine floors, electric lighting, store fixtures, (plumbing and heating, reserved), marble work. Architects have received bids.

Machine Shop (add.), Plainfield, N. J. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Reinforced concrete and brick, 1 sty., 288x76 feet, asbestos roof, cement and pine floors, metal window guards, hollow metal sash, fire doors. Architect taking bids due April 11. H. E. Baton, Twelfth and Sansom streets; John R. Wiggins, Otis Building; John W. Ferguson & Co., Newark, N. J.; Matthews Const. Co., Princeton, N. J., and Flynt Bldg. & Const. Co., 30 Church street, New York City, are figuring.

Garage, Moorestown, N. J. Architect, J.

Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Chas. J. Allen, Moorestown, N. J. Hollow tile and plaster, 2 stys., 30x40 feet, hot water heating, tile roof, electric lighting, cement floors. Plans in progress.

Freight Station and Office, New Brunswick, N. J. Architect, M. of W. Dept., Broad Street, Station, Philadelphia. Owner, Penna. R. R. Co., Broad Street Station, Philadelphia. Brick and concrete, 1 sty., 42x260 feet and 2 stys., 40x40 feet, slag or built up roof, steam heating, electric lighting, maple and pine floors. Plans completed. Owners, care J. H. Harris, Engr., Jersey City, N. J., will take bids.

Factory, Camden, N. J. Architects, Balingér & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Campbell Soup Co., Camden, N. J. Brick, steel and concrete, 5 stys., slag roof, electric lighting. Plans in progress. Too early for details.

New Jersey Contracts Awarded

Residence (alt.), Moorestown, N. J. \$4,000. Architect, Clarence De Armond, 1529 Walnut street, Phila. Owner, W. A. Richman, Moorestown, N. J. Frame, porch inclosure, frame and glass, tin roof, hardwood floors, fireplace. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Garage, Trenton, N. J. \$5,000. Architect, Spencer Roberts, 1524 Chestnut street, Phila. Owner, Mrs. F. A. C. Perrine, 413 W. State street, Trenton, N. J. Brick, 1½ story, 25x34 feet, shingle roof, hot water heating, electric lighting, cement and pine floors. Contract awarded to Wm. Musson, 1002 Hamilton street, Trenton, N. J.

Residence (alt. and add.), Merchantville, N. J. Architect, Henry A. Macomb, 214 S. 7th street, Phila. Owner, S. P. Howe, Merchantville, N. J. Frame and timber, 2½ stories, addition 23x8, cotton duck roof, steam heating, electric lighting, tile work. Contract awarded to Martin James, Merchantville, N. J.

MARYLAND Construction News

Store (alts.), 316 West Lexington street, Baltimore. Architect, Benj. Frank, 328 North Charles street, Baltimore. Owner, Mrs. Emma Cohn, 232 Pine street, Baltimore. Consists of general alterations. Plans in progress.

Garage, rear 3315-3319 Barelay street, Baltimore. Architect, George N. Mackenzie, 3rd, Eversham avenue, Baltimore. Owner, A. D. Clemens, 3021 York Road, Baltimore. Brick, 1 story, 52x110 feet, slate roof, steam heating. L. C. Wood, Govans, Md., will take sub-bids in about two weeks.

Office Building, South street, near Water street, Baltimore, Md., \$50,000. Architect, Edw. H. Glidden, Garrett Building, Baltimore,

Md. Owners, Furness, Withy & Co., care of A. W. Sidebotham, 317 Chamber of Commerce, Baltimore. Brick and stone, 2 stories, 55x145 feet, slag or slate roof, steam heating, electric lighting, plumbing. Plans in progress.

Store and Office Building, Saratoga street, Baltimore, Md. Architect, A. L. Forrest, Title Building, Baltimore. Owners, George R. Morris & Co., Title Building, Baltimore. Reinforced concrete, terra cotta, 8 stories, 132x190 feet, slag or slate roof, steam heating, electric lighting, electric elevators, composition floors, ornamental iron, copper and sheet metal work, interior tile, marble and terrazzo work. Plans in progress. Building work will not be started

until the fall.

Store (alts.), 417 West Baltimore street, Baltimore, Md. Architect, John Freund, Jr., 11 East Lexington street, Baltimore. Owner, J. Dashew, on premises. Consists of new front, galvanized iron work (electric wiring and plumbing reserved). Architect taking bids, due April 6th. W. E. Harn Co., 213 North Calvert street; R. H. Frazier & Son, 224 W. Mulberry street; Henry L. Maas, 1119 Ensor street; Mr. Muchnick, 4 Irving Place; John Kramer & Co., South Sharp street; Ulman & Margolis, 418 Aisquith street; Isadore Merin, 1720 East Fairmount avenue, are figuring.

Residences, South Brooks Lane, near Brookfield avenue, Baltimore, \$25,000. Architect, W. B. Gerwig, 1026 North Fulton avenue, Baltimore. Owner, Frank O. Singer, 600 Equitable Building, Baltimore. Brick, 2 stories, tin roof, steam heating, electric lighting, tile work. Owner taking sub-bids.

Residences (4), Linden avenue, Baltimore, Md., 113,000. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore. Owner, Bertam Constable, 2917 Guilford avenue, Baltimore. Brick, 2½ stories, 22x37 feet, slate roof, steam heating, electric lighting, hardwood floors, tile work. Owner is taking sub-bids.

Maryland Contracts Awarded

Warehouse (add.), Crumpton, on Chester River, Kent Co., Md. Architects, Mottu & White, 324 North Charles street, Baltimore. Owner, D. E. Foote & Co., 2023 Aliceanna street, Baltimore. Concrete foundation, galvanized iron, 66x128 feet, tin and slag roof, cement floors, iron work, millwork, skylight. Contract awarded to W. E. Burnham, Law Building, Baltimore, Md.

Bath House, Bay Shore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore. Owners, Maryland Railways Co., Continental Building, Baltimore. Frame, 1 story, 50x310 feet, asbestos roof, steam heating, electric lighting, painting, plumbing, cement floors, sheet metal, glazing, laundry equipment. Contract awarded to C. E. Stubbs, Equitable Building, Baltimore.

Warehouse (add.), West Fayette street, near Howard street, Baltimore. Architects, Smith & May, Calvert Building, Baltimore. Owners, Eisenberg's Underselling Store, 213 West Lexington street, Baltimore. Brick (slow burning), 4 stories, 22x65 feet, slag roof, electric lighting, iron work, plumbing. Contract awarded to C. L. Stockhausen Co., Gay and Water streets, Baltimore.

Laboratory Building, Alexandria, Va. Architect, private plans. Owners, Southern Railway Co., Thirteenth street and Pennsylvania avenue, Baltimore. Brick, steel and concrete, 2 stories, 45x82 feet, asphalt roof, concrete floors, metal lath, terra cotta partitions, plastering, painting, plumbing, sheet metal composition floors (electric wiring reserved). Contract awarded to the Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Permits for New Buildings

Garage, Casper and Venango streets, \$5,000. U. G. I. Co. (O and C), Broad and Arch sts. Steel, 1 story, 30x91 feet, corrugated covering.

Dwellings (30), Fifty-fourth and Warrington avenue, \$80,400. Ferguson & McDowell (O and C), 1003 South Fifteenth street. Brick,

2 stories, 16x24 feet, slag roof, hot water heating.

Dwelling, Millbourne avenue and Sixty-fifth street, \$4,500. Pompey Ansell (O and C), 6413 Race street. Brick, 2 stories, 16x47 feet, slag roof, steam heating.

Store, 1506-08 Callowhill street, \$15,000. Kahn & Greenburg (O and C), 309 Morris Building. Brick, 3 stories, 34x100 feet, slag roof.

Dwelling, Broad street, north of Sixty-fifth avenue, \$8,000. A. Engel Corway (O), York road above Sixty-fifth avenue. Nerbert Hope (C), 5901 York road. Stone, 2 stories, 28x35 feet, slate roofing, hot water heating.

Office Building, Venango, west of Twentieth street, \$5,000. Benj. Foster Co. (O), on premises. H. E. Baton (C), Twelfth and Sansons sts. Brick, 2 stories, 18x60 feet, slag roofing, steam heating.

Boiler House, Wheatseaf lane and Coral street, \$28,000. Robert H. Foerderer (O), on premises. Geo. Kessler Co. (C), 931 Drexel Building. Brick, 1 story, 56x104 feet.

Dwellings (27), corner Third and Rockland streets, \$76,300. John Schmunk (O and C), 612 West Cambria street. Brick, 2 stories, 15x26 feet, slag roofing, hot water heating.

Office Building, Fifty-seventh and Chestnut streets, \$170,000. Bell Telephone Co. (O), 1631 Arch street. Irwin & Leighton (C), 120 North Twelfth street. Brick and stone, 3 stories, slag roofing, steam heating.

Shop, 1421 Brown street, \$4,000. Frank Shaw (O), 1405 Wood street. E. Fay & Son (C), 2 South Mole street. Brick, 2 stories, slag roof, steam heating.

Dwellings (20), Allegheny and Newkirk streets, \$44,500. Morris L. Miller (O and C), 1202 Commonwealth Building. Brick, 2 stories, slag roofing, 15x35 feet, hot water heating.

Dwelling (15), 5629 Willows avenue, \$40,700. R. D. and J. M. Wilson (O and C), 133 South Twelfth street. Brick, 3 stories, 15x42 feet, slag roofing, hot water heating.

Garage, Wakeling, and Leiper street, \$1,000. (O), Robert Lewis, on premises. (C), C. West & Co., Oxford and Wakeling. Brick, 1 story, 20x23 feet, slate roof.

Dwellings (7), Twenty-first street and Church lane, \$14,700. (O and C), Morris Golden, 5413 Christian street. Brick, 2 stories, 15x28, slag roof, hot water heating.

Dwellings (31), Hutchinson and Rockland streets, \$53,700. (O and C), W. Fischer, 3621 North Fifth street. Brick, 2 stories, slag roof, 15x35 and 16x45 feet.

Dwellings (5), 1766 Wyoming avenue, \$16,000. (O and C), Robert Ingram, 4805 North Front street. Brick, 2 stories, slag roof, hot water heating.

Garage, 5050 Larchwood avenue, \$300.00. (O), D. Dillon, on premises. (C), J. P. Fallon, 449 South Sixtieth street. Brick, 1 story, 9x16 feet, cement floor.

Dwelling, 2960 Salmon street, \$1,400. (O), Vito Errichette, 2960 Salmon street. (C), Antonio Errichette, 2958 Salmon street. Brick, 2 stories, 15x38 feet, slag roof, steam heat.

Garage, Pastorius and Oscrola, \$1,350. (O), Adolph Brigman, 6334 Moxton street. (C), J. H. Walter, 168 East Walnut lane. Brick, 1 story, 19x40 feet, slag roof, cement floor.

Warehouse, 3530 North Thirteenth street, \$1,500. (O), J. D. Clause, 3393 Park avenue. (C), J. Y. Souy, 3731 York road. Brick, 2 stories, 20x39 feet, wire lath plaster.

Shop, Twenty-fifth and Moore streets, \$3,500. (O), Chas. A. Shetzline, 2021 South Broad street. (C), H. F. Dinkelacker, 227

North Farson street. Brick, 1 story, 40x70 feet.

Garage, 1669 North Fifty-ninth street, \$700. (O), K. R. Saunders, on premises. (C), J. D. Fisher, 5424 Thompson street. Brick, 1 story, 16x18 feet, slag roof.

Garage, 4947 Fairmount avenue, \$8,000. (O), A. G. Fischer, 4945 Fairmount avenue. (C), J. D. Fisher, 5424 Thompson street. Brick, 1 story and 2 stories, rear, 45x91—39x27 feet, cement floor, slag roof.

Cleaning House, East Penn street and Belfield avenue, \$5,000. (O), National Umbrella Frame Co., 3002 Thompson street. (C), Geo. Whitenor, 403 East Penn street. Brick, 1 story, 65x56 feet, slag roof.

Dwellings (11), Lefevre street, Richmond street, \$16,000. (O and C), C. Kiely, 312 West Seymour street. Brick, 2 stories, slag roof, hot air heating.

Garage, Tulip and Tyson streets, \$1,100. (O), Miss A. Butterworth, on premises. (C), J. E. Matis Son, 4412 Wingohocking street. Brick, 1 story, 16x23 feet, slag roof.

Shop, 3336 Braddock street, \$350. (O and C), E. J. Gilbert, 3337 Emerald street. Brick, 1 story, 16x33 feet, slag roof.

Dwelling and Garage, Lincoln Drive, Carpenter, \$1,493. (O), George W. Steinmetz, 318 West Vespall street. (C), Wm. S. Kohl, 101 East Washington lane. Stone, 3 stories, tile roof, pine floors, steam heating, 41x40 and 28x23 feet.

Factory, Moore street, west of Sixth street, \$40,000. (O), Windsor Chocolate Co., Twenty-fourth and Hamilton streets. (C), Wm. Steel & Sons Co., 1600 Arch street. Brick, 3 stories, 63x116 feet, slag roof.

Dwellings (15), Schiller and Russell streets, \$33,200. (O and C), J. Korman, 3418 Kensington avenue. Brick, 2 stories, slag roofing, hot water heating.

Dwellings (24), Tioga and Palmetto streets, \$61,300. (O and C), Finestone & Mittleman, 2983 Aramingo avenue. Brick, 2 stories, slag roofing, hot water heating.

Dwellings (6), 5312-22 Penn street, \$12,300 (O and C), Harold Swope, 5028 Frankford avenue. Brick, 2 stories, 14x28 feet, slag roof, hot air heating.

Office Building, Eighteenth and Sedgely street, \$86,600. (O), C. H. Wheeler Mfg. Co., on premises. (C), R. M. Peterson & Son, 5250 Wakefield street. Brick, 2 stories, 38x80 feet, slag roof, steam heating.

Garage, 5512 North Palethorp street, \$325. (O), Joseph Di Dianto, 5511 North Second street. (C), George R. Dewes, 311 Grange avenue. Brick, 1 story, 16x18 feet, cement floor, tin roof.

Office Building, Girard avenue and Fletcher streets, \$5950. (O), W. H. Lear, 979 North Front street. (C), Morrison & Sons, 2322 North Howard street. Brick, 2 stories, 20x63 feet.

Garage, Kitchens lane, Wissahickon avenue, \$3,000. (O), W. R. Eisenhower, on premises. (C), John Stevens, Inc., Wyncote, Pa. Stone, 1 story, 28x26 feet, cement floor, shingle roof, hot water heating.

Garage, Olney avenue and Palethorp street, \$1,250. (O), Ed. Clayton, on premises. (C), L. Davis, 5931 North Twelfth street. Brick, 1 story, 20x54 feet.

Office and Graining Building, McKean and Swanson streets, \$28,000. (O), India Refining Co., on premises. (C), J. Richard Jackson, Ferry Building. Brick, 2 stories and 1 story, 61x45 feet and 46x64 feet, slag roofing.

Dwellings (4), Gravers lane and Anderson street, \$14,000. (O and C), John Craig, 8521

Germantown avenue. Brick, 3 stories, 16x46 feet, slate roofing, hot water heating.

Garage, 10th street and Erie avenue, \$4,000. (O and C) H. Banaclough, 3649 N. 10th street. Brick, 1 story, 16x160, 1 story, 16x138, 1 story, 16x32, 3 class slag roofs.

Garage, Franklin and Cambria, \$1,650. (O) Chas Hogg, 2908 Franklin; (C) H. C. Zuigroff, 2527 N. 7th street. Brick, 1 story, 18x66, slag roof.

Coppersmith Work Shop, 3 Christian street, \$1,800. (O) Peter Leavey, 967 S. Front street; (C) G. Bianchine, 1220 S. 13th street. Brick, 1 story, 21x72 feet, rear, 42x42 feet.

Dwelling, 1918 Race street, \$50,000. (O) J. P. McNichol, Lincoln Bldg.; (C) H. E. Baton, 12th and Sansom streets. Brick and stone, 3 stories, 40x65, slag roof, steam or hot water heating.

Garage, 601 E. Lewis avenue, \$650. (O) Adolph Weecht, on premises; (C) Aug. C. Schorn, 237 W. Wycoming. Brick, 1 story, 12x24, cement floor.

Garage, Howell and Rising Sun avenue, \$350. (O) Michael Marren, on premises; (C) William Schmitt, 4936 Fairhill street. Brick, 1 story, 10x18, shingle roof.

Garage, Cheltenham avenue and Fairhill st. \$700. (O and C) E. E. Lloyd, Jr., 8th and 66th avenue. Stone, 18x20, 1 story, cement floor.

Dwelling, Harmon road, 800 W. of Ridge avenue, \$6,500. (O and C) R. W. Struse, 6615 Ridge avenue. Stone, 2 story, 25x40, shingle roof, steam heating.

Garage, Milnor and Margaret, \$650. (O) S. Zupkens, on premises; (C) A. H. Nogorski, 2446 Orthodox. Brick, 1 story, 36x20, slag roof, cement floor.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 27, 1917.—Sealed proposals will be opened in this office at 3 P. M. May 8, 1917, for the construction of the United States post office at Media, Pa. Drawings and specifications may be obtained from the custodian of the site at Media, Pa., or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after _____, Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, March 22, 1917.—Sealed proposals will be opened in this office at 3 P. M. on April 27, 1917, for the construction, complete, of the steorage barracks for the United States quarantine station at Portland, Me. Drawings and specifications may be obtained from the custodian at the quarantine station or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Henry M. Miller.....46-48-50 N. 2d st., Phila.
Richardson and Boynton Co..1342 Arch st., Phila.

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American Chemical Paint Co.1118 S.11th st., Phila.

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Bowers Bros. & Co.1629 Ludlow st., Phila.

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Howard Ketcham.....3d and Girard ave., Phila.
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Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.

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Consolidated Expanded Metal Co.,
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Pearce Fireproof Co.....1345 Arch st., Phila.

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American Chemical Paint Co.1118 S.11th st., Phila.

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Samuel H. French & Co..4th and Callowhill sts.
Eugene E. Nice.....268 S. 2nd st., Phila.

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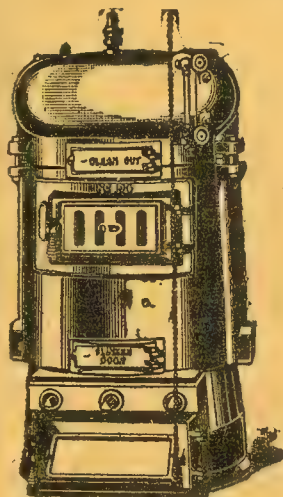
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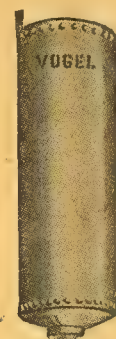
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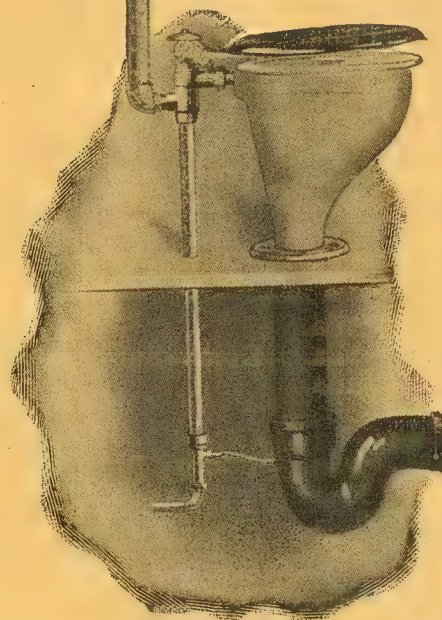
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Vol. XXXII, No. 15
April 11, 1917

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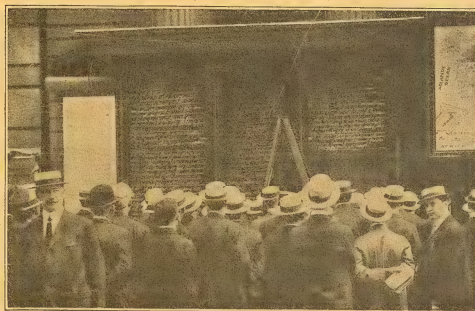


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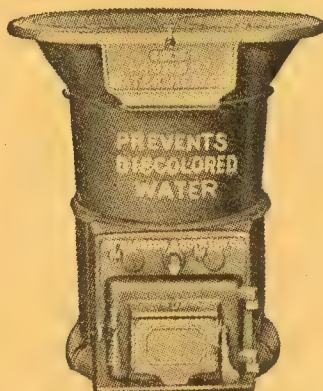
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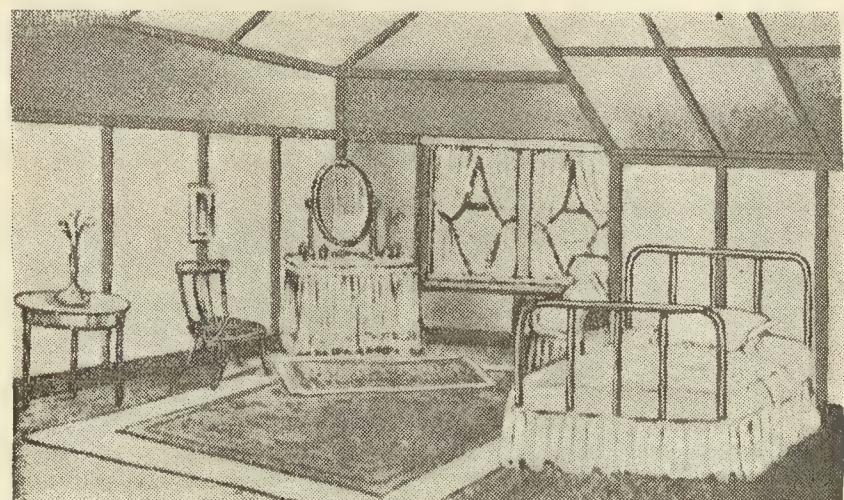
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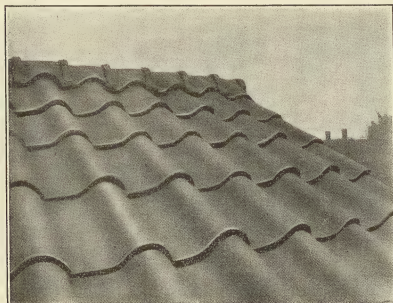
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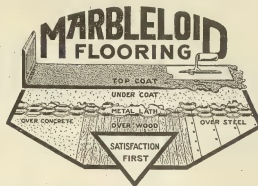
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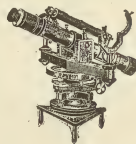
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 15

PHILADELPHIA
April 11, 1917



As The Editor Sees It



THE figures for March, compiled by William W. Gamble, Statistician of the Philadelphia Bureau of Building Inspection, show a decrease in building activity compared with statistics for March in preceding years. There were issued during March of this year a total of 717 permits for 1,148 buildings, representing an outlay in expenditure of \$3,486,625, covering a period of ten years the average number of operations for March has been about 1,864, with an average outlay of approximately \$4,586,600.

The statistics for the month of March, since and including 1907, were as follows:

	Operations.	Cost.
March, 1907	1381	\$3,535,260
March, 1908	1250	2,489,940
March, 1909	1848	3,857,840
March, 1910	2361	5,343,270
March, 1911	2501	5,581,295
March, 1912	1633	3,691,895
March, 1913	1772	6,206,500
March, 1914	1807	5,175,530
March, 1915	2480	5,388,265
March, 1916	1606	4,590,630
March, 1917	1148	3,486,625

* * *

BUILDERS point out that the decrease registered by the month just ended should not be regarded as in any sense alarming, looking upon it as a natural reaction after the extraordinary activity of the past six months. It is predicted by men familiar with conditions that the next few months will show totals fit to be classed with the best of last year's returns. One of the factors counted on to materially advance normal activity is the demand for new construction as a result of war activity in all lines. The demand for ships, munitions, supplies of every kind and sort, incident to the fitting-out of a great army and navy

for active service, is looked to cause enlargements of mill and plant facilities passing all previous records.

Just here it may be said that Mr. Gamble's figures for the first quarter of the present year, which ended recently, compare favorably with those for the corresponding period of last year. During the first three months of 1916 there were started 3,422 operations, representing a total cost of \$8,887,470; during the corresponding period of this year 2,576 operations were started, at a total cost of \$9,673,370. That is a decrease of 846 in the number of operations, but an increase of \$785,900 in the amount spent for building purposes.

* * *

FOLLOWING is the detailed report for last month:

Character.	Opera- tions.	Estim'd cost.
Dwellings, 2-story	454	\$1,065,420
Dwellings, 3-story	50	396,140
Dwellings, frame	3	5,300
Tenement houses	1	16,000
Stables	5	800
Manufactories	5	636,000
Workshops	12	19,300
Garages	80	150,285
Office buildings	8	243,008
Stores	2	55,000
Warehouses	9	88,600
Churches	1	46,900
Engine and boiler houses	1	28,000
Bank buildings	1	18,000
Miscellaneous buildings	11	7,760
Additions	124	367,430
Alterations and repairs	253	248,310
Miscellaneous work	111	39,065
Heaters	8	5,205
Fire escapes	7	3,700
Signs	7	4,410
Power houses	1	42,000
Totals	1148	\$3,480,625

FIGURES compiled by the Board of Revision of Taxes incident to the preparation by that body of its records for the 1917 assessment disclose some interesting facts bearing upon Philadelphia's growth as a home and manufacturing city. According to these figures the total number of buildings in this city at the time of making up their books was 443, 104, or 40,670 more than the total shown by their records for 1916.

The 1917 figures, as compared with those for 1916, show an increase of all classes—stone, brick, stone-and-brick and frame. There was an increase of 6,453 in the number of two-story brick dwellings, for which this city is noted, and the number of two-story stone dwellings was 104 more than the number last year. The number of two-story brick-and-stone dwellings was slightly increased by 65. There was a reduction of 276 in the number of three-story brick houses, but an increase of 105 in the number of three-story stone houses. The number of frame dwellings was 45 less than the number the year previous.

* * *

OWING, no doubt, to excellent business conditions, there was a substantial increase in the number of properties used for various business purposes. Factories, mills and foundries showed an increase of 74, while there was also an increase of 179 in the number of buildings used for business and store purposes, not counting those properties that are known as stores and dwellings. Shops showed an increase of 49, and office buildings an increase of 19. The number of buildings occupied by banks, savings and trust companies was the same as in 1916, that is 108, and a slight decrease of 2 is shown in the number of properties under the heading breweries, distilleries, malt-houses and vaults.

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.
125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086

**BLUE
PRINTS**

Churches show an increase from 946 to 958, but public school buildings show a decrease from 345 to 338. The number of buildings owned by schools under religious control, colleges and libraries increased by five, and a bare increase of one is shown in the number of hospitals, asylums and other buildings used for benevolent and charitable purposes. There was an increase of 46 in the number of properties, other than schools, owned by

the city, the State and the United States Government. The assessment books show also that in 1916 the number of unimproved lots in this city was 33,513, while this year the number is only 32,974, a decrease of 539.

* * *

AN encouraging growth in material prosperity and one of which Philadelphia has every right to be pardonably proud.

EDITORIAL NOTES

"Futurism and cubism do not reflect credit upon art and should not be encouraged. They only lower the old standard of art. The great majority of young artists do not have an adequate conception of drawing because of these freakish tendencies." This was the keynote of an address by Leslie W. Miller, principal of the Pennsylvania Museum and School of Industrial Art, at the annual banquet of the Eastern Arts Association in the Walton. Other speakers were George Wheeler, associate superintendent of schools, and Dr. Arthur D. Dean, director of industrial education, of New York.

* * *

E. M. Van Voorhees, architect, formerly of Van Voorhees & Harvey, Hale Building, has removed his offices to Suite 420-21 at 1535 Chestnut street, Philadelphia.

* * *

Joseph Burr Tiffany, famous art dealer and decorator, died at his home at Yonkers on Thursday. He was born in Hudson, N. Y., in 1856. Mr. Tiffany was regarded as one of the most eminent of art experts, and was particularly noted for his artistic decorations on musical instruments.

* * *

Peace overtures brought Contractor McHugh and Director Datesman together, after the litigation of the previous day. They met in the City Solicitor's office, and McHugh signed the contracts in dispute, and will proceed with the construction of the sewers. John H. McClatchey, the builder, whose operations were affected by the delay in the construction of the sewers, was also present. Director Datesman will not "blacklist" McHugh, and will also accept his bids for additional sewer construction which were withheld by the orders of the Director pending the outcome over the disputed contracts.

* * *

McHugh sought in Common Pleas Court No. 5 to restrain Director Datesman from blacklisting him, but the Court refused the application. McHugh claimed that after once having been told that the contract would not be awarded, and afterward instructed to proceed, the delay would cause a financial loss by reason of the advancing cost in materials since he first bid for the work in the fall of 1916. This order of suspension of the contracts was denied by Director Datesman.

There was some talk of an appeal to a higher Court to test the right of Councils to suspend to April 1 the ordinance increasing the cost of sewer construction to property owners from \$1.50 to \$2.50 per front foot, but the prospects of delay and the loss of city work while the case was being tested in the Supreme Court prompted McHugh to yield.

* * *

Ambrose Edwin Lehman, a native of Lebanon and more than 40 years a resident of Philadelphia, died at his home, 209 South Forty-third street. He was a civil engineer of note, a member of the American Philosophical Society, the American Institute of Mining Engineers, the Engineers' Club and the Art Club.

* * *

Charles F. Seipp, architect and engineer, has opened offices at 2008 South Seventeenth street, Philadelphia, where he will be pleased to receive samples, catalogues, etc.

* * *

Bearing the flaring title "Frightful Fire Losses!!!" in vivid crimson, the Merchant & Evans Company, of Philadelphia, have issued a very instructive little folder dealing with fire hazards and the advantage of Merchants' Old Method Roofing Tin as compared with wooden shingles, composition and other roofing. Copies of the folder may be had on request by parties interested.

* * *

Announcement has just been made by the Publicity Bureau of the Associated Metal Lath Manufacturers that their offices have been moved from Chicago to Room 901 Swetland Building, Cleveland, Ohio, and that Zenas W. Carter, formerly of Boston, has been appointed Commissioner, to supervise all their publicity, promotion and investigation from the Cleveland office. Mr. Zenas W. Carter has been manager for manufacturers' associations for the past ten years, directing co-operative publicity and promotion work between manufacturers, distributors and consumers. He was the first General Secretary of the Electric Development Association when it was incorporated in New England, and he has managed the publicity and field promotion and investigation work of the Granite Paving Block Manufacturers' Association of the United States since their organization two and one-half years ago.

Among the plans of the Metal Lath Association which are yet in the embryo is a co-operative national campaign of publicity which will be developed by the Council of Advertising Managers of the member companies, which Council is an active part of the Publicity Bureau of the manufacturers' organization, although the Publicity Bureau proper includes officials and sales managers of the companies interested. Their plans cover a series of extensive and exhaustive tests of the fire-resistance properties of metal lath, its use in fire retarding construction, the exploitation to architects and the public of the saving in space which can be effected through the use of this material, its vermin and rodent proofness; investigation and assistance in the revision of building codes of cities so that metal lath will receive its proper recognition by city officials and engineers, and a co-operative movement in the distributing centers of the United States seeking to develop co-operative promotion work on the part of the jobbers and large distributors of metal lath.

* * *

The Advertising Managers who comprise the Advertising Council of the Publicity Bureau of the Associated Metal Lath Manufacturers are: Mr. C. O. Powell (president), Northwestern Expanded Metal Company; Mr. S. E. Fechheimer, Trussed Concrete Steel Company; Mr. R. M. Nicholson, Berger Manufacturing Company; Mr. C. M. Stewart, Consolidated Expanded Metal Companies; Mr. L. E. Fisher, General Fireproofing Company; Mr. L. J. Rouleau, Penn Metal Company; Mr. F. E. Erickson, Milwaukee Corrugating Company; Mr. William George Lane (secretary), the Bostwick Steel Lath Company; Mr. Zenas W. Carter, commissioner. The Julian Armstrong Bureau of Related Industries will continue its special work for the Associated Metal Lath Manufacturers, and Mr. Walter L. Weeden, of Worcester, Massachusetts, has succeeded Mr. Carter as field secretary of the Granite Paving Block Manufacturers' Association, of Boston.

* * *

Councils' Committee on Legislation will have introduced in the Legislature a bill regulating the location and conduct of rag-shops in Philadelphia. The bill was prepared at the request of Director Krusen, of the Department of Health, because of the menace to public health presented by establishments of the kind.

* * *

John F. Brady, the live wire brick man, booked recently an order for a half million grays for Dupont's office building at Wilmington, Delaware, delivered from the Claycraft Brick Company. Mr. Brady represents, in addition to the Claycraft Company, of Columbus, Ohio, the oldest fire brick concern in America, the Queen's Run Fire Brick Company, of Lock Haven, Pa.; the Reading Shale



Brick Company, of Reading, and the Royalton Shale Brick Company, of Middletown, Pa. He is interested, also, in a yard and plant at Plymouth, Pa., which has a capacity of 40,000 per day—paving block, roofing tile, brick and hollow tile. The Claycraft concern, represented by Mr. Brady, turns out a highly artistic brick in grays and buffs. Before the

Queen's Run Company began making fire brick 77 years ago, all the fire brick used in the United States was imported from Europe. Mr. Brady handles every variety of brick manufactured and enjoys the reputation of invariably making good when it comes to deliveries. His offices are located in the Crozer Building, Philadelphia.

ARCHITECT BILL BEFORE SENATE

An act to regulate the practice of architecture as a profession in Pennsylvania was read in place by Senator Vare at the Senate session. The act creates a State Board of Examiners, one to be a member of the faculty of the School of Architecture of the University of Pennsylvania; another a member of the faculty of the Department of Architecture of Carnegie Institute of Technology, Pittsburgh; another a member of the faculty of the school of engineering teaching architectural engineering of the Pennsylvania State College and the remaining four architects residing in the State who have been in continuous practice of architecture for at least ten years. A fee of \$10 is required for examination. Applicants must be more than twenty-five years of age, must have obtained a preliminary education equivalent to a course of study in a first-class high school and had at least seven years' con-

tinuous practical experience in the office of a reputable architect. A license is to be issued to applicants who pass a satisfactory examination. Persons engaged in the practice of architecture at the time of the passage of the act need not undergo examination, but are required to pay the fee of \$10 and submit proof that they have continuously engaged solely in the practice of architecture for two years immediately preceding the passage of the act. Licenses are only for one year and are renewed each January by payment of the \$10 fee. It is made unlawful after January 1, 1918, for any person to practice architecture within the State without a license. Violation of the act makes the offender liable to a fine of not less than \$50 for the first offense, for the second a fine not less than \$200 nor more than \$500, or to undergo an imprisonment in the county jail of not more than a year, or both at the discretion of the Court.

HOW ANCIENT TEMPLES AND PYRAMIDS WERE BUILT.

This is beyond modern conjecture, so imperfect is our understanding of the extent of the mechanical knowledge of the ancients. Their appliances are believed to have been of the simplest order, and their implements exceedingly crude, and yet they were able to convey these enormous blocks of stones for vast distances, over routes most difficult, and having accomplished this, to raise them to great height, and fit them in place without the aid of either cement or mortar to cover up the errors of the stone-cutter. How all this was done is one of the enigmas of modern science. It has been generally believed that inclined planes of earth were used to enable the workmen to raise the huge stones to their places, the earth being cleared away afterward. But it is possible that the ancient had a more extended knowledge of mechanical powers than we usually give them credit for, and that they made use of machinery very like that employed by modern for lifting great weights. Large cavities are found in some of the stones in the pyramids, which may have been worn by the foot of a derrick turning in them. That there were enormous numbers of men employed in the building of these ancient structures is well known; these results of their great aggregated strength we see, but they left no record of the means by which this strength was focused and brought most effectually to bear on their mighty tasks.

CHINA'S GREAT WALL.

The dimensions of the great wall of China and of what it is built.—It runs from a point on the Gulf of Liantung, an arm of the Gulf of Pechili in Northeastern China, westerly to the Yellow River; thence makes a great bend to the south for nearly 100 miles, and then runs to the northwest for several hundred miles to the Desert of Gobi. Its length is variously estimated to be from 1,250 to 1,500 miles. For the most of this distance it runs through a mountainous country, keeping on the ridges, and winding over many of the highest peaks. In some places it is only a formidable rampart, but most of the way it is composed of lofty walls of masonry and concrete, or impacted lime and clay, from 12 to 16 feet in thickness, and from 15 to 30 or 35 feet in height. The top of this wall is paved for hundreds of miles, and crowned with crenellated battlements, and towers 30 to 40 feet high. In numerous places the wall climbs such steep declivities that its top ascends from height to height in flights of granite steps. An army could march on the top of the wall for weeks and even months, moving in some places ten men abreast.

Advertiser! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

RUNNING EXPENSES OF NEW YORK.

The tremendous increase in the cost of government in New York City is shown by the following table, showing the increase in the eighteen years, 1900 to 1917 inclusive:

Year.	Budget.
1900.....	\$92,397,446.46
1901.....	99,826,582.67
1902.....	100,349,619.30
1903.....	98,641,240.17
1904.....	108,362,622.29
1905.....	111,562,409.59
1906.....	118,650,552.08
1907.....	130,421,505.66
1908.....	143,572,266.17
1909.....	156,545,143.14
1910.....	163,128,270.37
1911.....	173,967,835.16
1912.....	181,090,256.51
1913.....	192,711,441.16
1914.....	192,995,551.62
1915.....	198,989,786.52
1916.....	212,956,177.54
1917.....	211,115,016.82

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

OFFICES, PERRY BUILDING (Suite 824-825-826)
Sixteenth and Chestnut Sts., Philadelphia, Pa.

SUBSCRIPTION RATES

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To all points in Canada..... 5.50 a year
To all points in Europe..... 5.50 a year

All Subscriptions Payable in Advance

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PUBLISHED BY

Building News Publishing Company, Inc.

PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President
H. A. Lang.....Vice-President
Joseph M. DeLone.....Secretary and Treasurer

Entered at the Post Office at Philadelphia as
Second Class Matter

Irving Dillon.....Editor

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores (3) and Garage, Broad and Allegheny avenue, Philadelphia. Architect, private plans. Owners, Crumbie Bros., on premises. Brick, 1 story, 55x140 feet, slag roof, cement and pine floors, steam heating, electric lighting, marble work, metal lath, hollow metal skylights, roof ventilators. Owners taking revised bids, due April 13th. Henry P. Schneider, 3713 Old York Road, and Conneen Const. Co., 1737 Filbert street, Philadelphia, are figuring.

Stores (alt.), 4939-41 North Broad street, Philadelphia, \$15,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, F. W. Woolworth Co., Woolworth Building, New York City. Brick and stone, consists of interior alterations and new front, pine floors, electric lighting, tile and marble work, metal lath, metal bulks. Plans in progress.

Residence, Chestnut Hill, Philadelphia (Rising Sun avenue). Architect, E. M. Van Voorhees, 1535 Chestnut street, Philadelphia. Owner, L. M. Martin, Twelfth and Chestnut sts., Philadelphia. Brick, frame and stucco, 2 stories, 36x21 feet, shingle roof, hot water heating, electric lighting, tile work, cement and oak floors, metal lath, wire work. Architect taking bids, due April 14th. E. J. Kreitzburg, 1345 Arch street; Specht & Sperry, Heed Building; Freund Const. Co., Bulletin Building, and J. Sims Wilson Co., 1125 Brown st., are figuring.

Factory, Stenton avenue, Wayne Junction, Philadelphia. Engineer, Kern Dodge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets. Reinforced concrete, 4 stories, 60x300 feet. Plans about completed. Engineer will take bids in a week.

Schools (2) (alt. and add.), Ninth and Lindley avenue and Rhawn and D streets. Architect, J. Horace Cook, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, care of Wm. Dick, secretary, Nineteenth above Chestnut street. Brick and stone, 2 and 3 stories, 42x92 feet and 88x33 feet, composition and slate roof, electric heating, marble work, rolled steel sash and skylights, fire doors, cement and maple floors, hollow tile, metal lath, roof ventilators, metal weatherstrips, waterproofing, wire work. Low bidders: Melody & Keating, 1322 Cherry street, (Ninth and Lindley—\$53,848); H. H. Wehmeyer, 1004 Lehigh avenue (D and Rhawn streets—\$39,429).

Subway Station, Contract No. 520, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Dept. of City Transit, Wm. S. Twining, director, Bourse Building, Philadelphia. Structural steel. Owners taking bids, due April 17th at noon.

Subway Stations, Contracts 103, 104 and 204, Architect, private plans. Owners, City of Philadelphia, Dept. of City Transit, Wm. S. Twining, director, Bourse Building, Philadelphia. Excavating, heavy construction under-

pinning, reinforced concrete, waterproofing, dampproofing, skylights, safety treads, iron stairs. Lowest bidders, Keystone State Const. Co., Pennsylvania Building, on contract No. 103, \$2,315,000; contract No. 204, \$3,326,000; Philadelphia Subway Const. Co., Lincoln Building, contract No. 104, \$2,885,000.

Club (alt. and add.), northwest corner Thirtieth and Walnut streets, \$50,000. Architects, Mellor, Meigs & Howe, 205 S. Juniper street, Philadelphia. Owners, Philadelphia Club, on premises. Brick, 2 stories, 50x100 feet (plumbing, heating, electric work and (2) elevators reserved), slag roof, tile and marble work, hollow tile. Architects have received bids.

Rectory, Fiftieth and Master streets, Philadelphia. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Our Lady of Angels R. C. Church, care of Rev. Victor Strumina, Fiftieth and Master streets, Philadelphia. Brick and stone, 2 stories, 26x43 feet, tin roof, pine floors, electric lighting, wire work. Architect has received bids.

Loft Building, southwest corner Broad and Brown streets, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, R. A. Heymann & Bro., Widener Building, Philadelphia. Reinforced concrete, brick and stone, 5 stories, 40x100 feet, slag roof (plumbing, steam heating, electric work, (1) elevator reserved), cement and tile floors, tile and marble work, metal lath, roof ventilators. Architect taking bids, due April 11th. The following are figuring: Warren-Moore & Co., Commercial Trust Building; Cramp & Co., Denckla Building; Turner Concrete Steel Co., 1713 Sansom street; I. T. Shoemaker, 1324 Walnut street; Stacy Repves & Sons, 2011 Market street; F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Factory Building, Swanson and McKean streets, Philadelphia. Architect, Wm. C. Furber, 418 Walnut street, Philadelphia. Owners, India Refining Co., on premises. Brick, 3 stories. Architect selected. Details not decided. Plans to be started soon.

Store Building (alt. to first and second floors), southeast corner Broad and Wallace streets, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Kahn & Greenburg, Morris Building, Philadelphia. New marble front, brick work, maple floors, electric lighting, metal lath, metal bulks, metal ceilings. Owners and architects taking sub-bids.

Machine and Electrical Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, P. R. Harris, chief, Washington, D. C. Reinforced concrete, hollow tile and steel, 4 stories, 120x325 feet or 130x675 feet, slag roof, pine floors, rolled steel sash, fire doors (plumbing, heating, electric work separate bids), rolling steel shutters. Low bidder, F. W. Mark Const.

Co., Finance Building, Philadelphia, 130x325 feet, \$300,000; 130x675 feet, \$610,000.

Grit Chamber (Superstructure), north of Lycoming and west of O street. Architect, Chester E. Albright, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dept. of Public Works, Bureau of Surveys, Geo. E. Datesman, director, room 534 City Hall, Philadelphia. Reinforced concrete, brick and steel, 1 story, 60x40 feet, slate roof, (heating, electric work, plumbing, separate bids), tile and marble work, hollow tile, metal lath, rolled steel skylights, fire doors, safety treads. Owners have received bids.

Residence (alt.), 1415 North Broad street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Mrs. Gimbel, 914 North Broad street, Philadelphia. Consists of interior alterations, mill-work and cabinet work, lavatories. Architects taking approximate bids from Wm. R. Dougherty, 1610 Samson street.

Residences (34), southeast corner Forty-fourth and Parkside avenue, Philadelphia. Architect, not selected. Owner, Jacob Ash, 4176 Leidy avenue, Philadelphia. Brick, 2 stories. Work contemplated for this spring.

Garage (add.), 2539-41 West Huntingdon street, Philadelphia. Architect, private plans. Owner, John P. Maher, 2733 West Lehigh avenue, Philadelphia. Brick, 1 story, 60x37 feet, slag roof, (heating and lighting reserved). Owner taking bids, due as soon as possible. John N. Gill & Co., Otis Building, are figuring.

Office Building (add.), Meadow and Mifflin streets, Philadelphia. Architect, private plans. Owners, Niles-Bement-Pond Co., on premises. Brick, 1 additional story, 20x43 feet, slag roof, maple floors, wall board. Owners taking bids, due as soon as possible. Irwin & Leighton, 126 North Twelfth street; Brown-King Cost. Co., Commercial Trust Building; Graham-Campion Co., Otis Building; Wm. Henderson & Son, 327 South Twentieth street, and Edwin M. Evans, 321 South Lawrence st., are figuring.

Garage and Storage Sheds, Nineteenth and Sedgley avenue. Architect, not selected. Owners, J. Jacob Shannon & Co., 1714 Market street, Philadelphia. Brick and steel. Work contemplated. Details and plans not decided.

Lumber Sheds, southwest corner, Thirtieth and Indiana avenue. Architect, private plans. Owners, Chas. H. White & Sons Co., Inc., on premises. Steel or timber. Details not decided.

Residences (21), Sixty-seventh and Elmwood avenue, Philadelphia. Architect, private plans. Owners, Steltz & Melony, Sixty-seventh and Elmwood avenue, Philadelphia. Brick, 2 stories, 15x38 feet and 16x32 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owners taking sub-bids.

Residences, Wynnefield, Philadelphia. Architect, private plans. Owner, name withheld.

"TRIDENTS" FOR
WATER, OIL,
GASOLINE, BRINE,
ETC., ETC.

"TRIDENT" METERS

MORE TRIDENTS
IN PHILA. THAN
ANY OTHER
MAKE

PHILADELPHIA METER CO., 942 Real Estate Trust Building.

BOTH PHONES

Stone, 2 stories, 23x36 feet, shingle roof, hot water heating, electric lighting, tile and marble work, hardwood floors, wire work. John V. Speth & Co., 1714 Sansom street, taking sub-bids, due April 9th.

Stable, Twenty-eighth ward, Philadelphia. Architect, A. Jas. Stewart, Jr., 6318 Opal st., Philadelphia. Owner, name withheld. Brick, 2 stories, 64x20 feet, slag roof, cement floors, roof ventilators, metal window guards, wire work. Owner taking bids, due as soon as possible. John N. Gill & Co., Otis Building; Stewart Bros., 2526 North Orkney street, and E. C. Durell, 1713 North Twentyfourth street, are figuring.

Machine Shop, 4823 Garden street, Bridesburg, Philadelphia. Architect, private plans. Owners, Hall Gas Engine Co., on premises. Brick and steel, 1 story, 31x97 feet, slag roof, (hot air heating and electric work reserved), pine floors, rolled steel sash. Owners taking bids, due April 14th. Henry P. Schneider, 3713 Old York road; Edw. T. Bender, 6014 Torresdale avenue; Frank U. Birkelbach, 4608 Richmond street; Wark-Yardley Co., 1737 Filbert street, are figuring.

Dining Room (add.), Thirty-fourth and Vintage avenue, West Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, The Commercial Museum, on premises. Addition to Commercial Museum dining room, brick, 1 story, 21x60 feet, slag roof, steam heating, electric lighting, cement floors. Architect has received bids.

Plating Shop, Stenton avenue, Wayne Junction, Philadelphia. Engineer, Kern Dodge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell street. Brick, 1 story, 60x60 feet. Plans in progress. Engineer will take bids in ten days.

Residence, City line and Church road, Overbrook, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Joseph Gilfillan, West End Trust Building. Stone, 2½ stories, 31x56 feet and 21x27 feet, slate roof, hardwood floors, tile work, electric lighting. Architect taking bids, due April 14th. F. A. Havens Co., 845 North Nineteenth street, is figuring.

Factory, 1220-22 Buttonwood street, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, F. Weber & Co., 1125 Chestnut street, Philadelphia. Brick (slow burning), 5 stories and basement, 42x150 feet, slag roof, steam heating, electric lighting, maple and cement floors, hollow metal sash, fire doors and kalamein doors, hollow metal skylights, hollow tile, metal lath, 1 elevator, safety treads, metal window guards, waterproofing. Architect taking sub-bids, due April 17th. H. E. Baton, Twelfth and Sansom sts., and I. T. Shoemaker, 1324 Walnut street, are figuring on mason, brick, stone, carpenter and millwork.

Bank Building, Broad and Fairmount avenue, Philadelphia. Architect, Phillip Merz, Pennsylvania Building, Philadelphia. Owners, Northwestern National Bank, Ridge and Girard avenues. Granite, marble and steel, 1 and 2 stories and basement, 90x62 feet, composition roof, steam heating, electric lighting, tile and marble work, hollow metal or bronze sash, fire and kalamein doors, bank fixtures, terrazzo, cork and tile and cement floors, hollow tile, metal lath, metal window guards, waterproofing. Architect taking bids,

due April 16th. In addition to those reported, Thompson-Starrett Co., 49 Wall street, New York City, are figuring.

Warehouse (add.), 635-39 North Watts st., Philadelphia. Architect, private plans. Owners, Thos. Savill's Sons, 1310 Wallace street, Philadelphia. Brick, 2 stories. Work contemplated for near future.

Apartment House, Green street and Cheltenham avenue, Germantown. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Everett Cummins, 37 East Washington Lane, Germantown. Stone and brick, 4 stories, 90x160 feet, slag roof, steam heating, electric lighting, tile and marble work, hardwood, cement and pine floors, 1 elevator. Plans in progress. Architect will take bids in a week.

Club House (alt. and add.), northeast corner Eighteenth and Filbert streets. Architect, Maintenance of Way Department, Broad St. Station, Philadelphia. Owners, P. R. R. (Broad Street Department of Y. M. C. A.), Broad Street Station. Brick, 2 stories, 53x73

feet and 67x34 feet, hot water heating, electric lighting, pine floors, millwork. Plans nearly completed. Owners will take bids in a few days.

Laundry Building (alt. and add.), 5722-32 Race street, Philadelphia. Architect, Charles F. Seipp, 2008 South Seventeenth street, Philadelphia. Owners, Philadelphia Laundry Co., on premises. Brick, concrete and steel, 2 stories addition, 68x103 feet, slag and slate roof (electric work, boiler, machinery, heating tanks and 1 elevator reserved), steam heating, maple, cement and composition floors, fire doors. Revised plans in progress. Architect will take bids in a few days.

Store (alt.), 905-07 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Corrsin Bros., 1403 South street, Philadelphia. Consists of new front and interior alterations (plumbing, heating and electric work reserved), tile and marble work, metal lath, metal bulks. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, 1021-25 South Ninth street, Philadelphia, \$16,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Luigi Verna, on premises. Brick and steel, 3 stories and basement, 32x57 feet and 40x48 feet, slag roof, steam heating, electric lighting, maple floors, metal lath, dampproofing, fire doors, metal skylights. Contract awarded to Frank Lucci, 1603 Ellsworth street.

Theatre (alt.), Seventh and Snyder avenue, Philadelphia, \$12,000. Architect, Frank V. Greenstein, 715 Empire Building, Philadelphia. Owners, Grand Theatre Amusement Co., on premises. Brick, steel and terra cotta, 1 story, 75x135 feet, slag roof, cement floors, electric lighting, metal lath, tile and marble work, terrazzo work (lighting fixtures, pipe organ and interior decorating reserved). Contract awarded to G. J. Reich, Boulevard and Broad street, Philadelphia.

Store and Warehouse (alt. and add.), 1710-12 Market street, \$35,000. Architect, private plans. Owner, John C. Mellon, 1635 Ranstead street, Philadelphia. Brick, 2 story addition, 42x172 feet, fire tower, 6 stories, slag roof, pine floors, metal lath, rolled steel sash, fire doors. Contract awarded to Geo. C. Dougherty, 1725 Ludlow street, Philadelphia.

Residence and Garage, Ridge avenue and Kingsley street, \$16,000. Architect, private plans. Owner, Albert Walker, 2188 Osborne street, Philadelphia. Stone, 2 stories, 34x43 feet and 1 story, 24x34 feet and 8x14 feet, slate roof, hot water heating, electric lighting, tile work, cement and oak floors. Contract awarded to Wm. H. Eddleman & Sons, 453 Green Lane, Roxborough, Pa.

Factory, Ontario below Richmond street, \$30,000. Architect, private plans. Owners, Fritz Co., on premises. Brick, 2 stories, 60x125 feet, slag roof, steam heating, electric

lighting, cement and plank floors. Contract awarded to J. W. Kline, 2528 North Broad street, Philadelphia.

Hospital, Tulip and Allegheny avenue, Philadelphia. Architects, Ballinger and Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Northeastern Hospital of Philadelphia, 2359 East Allegheny avenue. Brick and reinforced concrete, stone trimmings, 2 stories, 101x41 feet and 1 story, 31x31 feet, slag roof, terrazzo, cement and pine floors, metal lath, rolled steel sash, hollow tile, metal skylights, fire and tin clad and kalamein doors, tile and marble work, (heating, electric work and elevator (1) reserved). Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Garage, Fifty-seventh near Baltimore avenue, \$13,500. Architect, private plans. Owner, Francis H. Thole, Penn Square Building, Philadelphia. Lessees, Harry Reed & Bro., Fifty-eighth and Baltimore avenue, Philadelphia. Brick and steel, 1 story, 75x185 feet, slag roof, cement and pine floors (heating reserved), electric lighting, cement and pine floors. Contract awarded to C. L. Hemmerly, Melrose, Pa.

Hospital (alt.), Race street, west of Eighteenth street, Philadelphia, \$1,900. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Wills Hospital, on premises. Consists of interior alterations, composition floors, electric lighting, tile and marble work, wire work. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Factory Building, Seventeenth and Cambria streets, \$13,000. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners, Electric Service Supplies Co., on premises. Brick and reinforced concrete, 1 story additional.

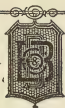
HEATING

BOWERS BROS. & CO.

1629 Ludlow Street
Philadelphia, Pa.

Belfi Bros. & Co.

Marble
Mosaic

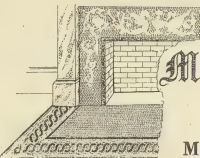


Terrazza and
Ceramic Mosaic

Tiles for Floors and Fireplaces
Interior Marble Work
Mantles, Marble and Wood

1923 Market Street
PHILADELPHIA

Branch Office, Allentown, Pa.
225 COMMONWEALTH BUILDING



Italian Marble Mosaic Co.

LOUIS PASQUALI, Prop.

Manufacturers and Dealers in

Marble Mosaics, Terrazzo, Tiles and Ceramics

Both Phones

433 Spruce Street, Philadelphia, U.S.A.

S. Government, care of Bureau of Yards and Docks, F. R. Harris, Chief of Bureau, Navy Department, Washington, D. C. Reinforced concrete, 110x1,000 feet. Contract awarded to Maryland Dredging and Contracting Co., Fidelity Building, Baltimore, Md.

Garage, 5800 Florence avenue, Philadelphia. Architect, private plans. Owner, Joseph Goatz, on premises. Brick, 1 story, 14½x16 feet, canvas, slate roof, cement floor. Contract awarded to J. P. Fallon, 449 South Sixtieth street, Philadelphia.

PENNSYLVANIA

Construction News

THE
Hogg Construction Co., Inc.
1634 Sansom Street
Philadelphia

BUILDING Alterations
Additions
Construction New Buildings

"Personal Attention from
Foundation Walls to
Interior Trim."

GET OUR ESTIMATE BEFORE
AWARDING A CONTRACT

105x62 feet, slag roof, electric light, rolled steel sash, waterproofing, fire doors, safety treads, cement and wood floors, 1 elevator, rolling steel doors. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Residence and Garage, Overbrook, Philadelphia, \$30,000. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Louis Burk, Third and Girard avenue, Philadelphia. Stone, 2½ stories, 53x33 feet; garage, 1½ stories, 22x25 feet, slate roofs, electric lighting, hot water heating, hardwood floors, tile and cement work. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Garage, Kitchens Lane, Germantown. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Charles F. Jenkins, Seventh and Washington Square, Philadelphia. Stone, 1½ stories, 28x44 feet, single roof, hot water heating (electric lighting reserved), cement floor. Contract awarded to W. John Stevens, Inc., Wyncoote, Pa.

Storage Building, 1530-32 North Twenty-seventh street, Philadelphia, \$4,300. Architect, private plans. Owner, Michael Krume-nacker, Chestnut Hill, Pa. Brick, steel and terra cotta, 1 story, 36x76 feet, slag roof, cement floors (plumbing, heating, electric work reserved). Contract awarded to Frank I. Wintz, 1218 North Twenty-seventh street, Philadelphia.

Dry Dock, League Island, Philadelphia, \$3,000,000. Architect, private plans. Owners, U.

Residence and Garage, Rydal, Pa. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owner, Mrs. W. M. Fagan, Glenside, Pa. Stone and brick, 2 stories, 62x30 feet and 17x23 feet, shingle roof, hot water heating, electric lighting, tile work, poplar and pine floors, metal lath, wire work. Architect has received bids.

Farm House (alt.), near West Chester, Pa. Architect, Edw. S. Paxson, 729 Walnut street, Philadelphia. Owners, Misses Margaret and Henry Baugh, care of architect. Stone, 2 stories, shingle roof, steam or hot water heating, electric lighting (water wheel power), plumbing, millwork, tile work. Plans in progress. Architect will take sub-bids in a month.

School, Johnson City, Northumberland Co., Pa., \$50,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Associate architect, T. J. Nolan, Shamokin, Pa. Owners, School Board of Coal Township, care of Stanley Witt, Northumberland Co., Pa. Brick, 3 stories, 17 rooms. Plans in progress.

School (Remodeling), near Center Square, Montgomery Co., Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of Whitpain Township. Eugene Whitlock, chairman of building committee, R. F. D. No. 1, Center Square, Pa. Brick, 2 stories, 45x60 feet, steam heating, electric lighting, pine floors, hollow tile, metal lath. Plans in progress. Architects will take bids in a month.

Tenement House and Farm House (alt. and add.), Haverford, Pa. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Hollow tile and plaster, 2 story addition, 17x15 feet and 24x15 feet, shingle roof, pine floors, millwork, plastering. Architect has received bids.

Graduate School (alt. and add.), Haverford, Pa. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Stone, hollow tile and plaster, 2 stories, addition, 30x40 feet, shingle roof, pine floors, hot air heating, electric lighting. Architect has received bids.

Twin Residences (38), Overbrook, Pa. Architects, Neubauer & Boyd, 1118 Chestnut street, Philadelphia. Owners, Evagard Realty Co., 1018 Drexel Building, Philadelphia. Brick, stucco and stone, 2 stories, 18x46 feet, slag roof, hot water heating, combination lighting, tile work, hardwood floors. Plans completed. Owners will take sub-bids on all lines.

Residence and Garage, Ridley Park, Pa.

Architects, Norman Hulme and John Dull, 1524 Chestnut street, Philadelphia. Owner, F. P. Turner, 30 W. Hinkley street, Ridley Park, Pa. Stucco and hollow tile, 2 stories, 24x46 feet (asbestos shingle roof, hot water heating, electric lighting, tile work, hardwood floors, metal lath, wire work. Architect taking bids, due April 12th. F. B. Davis, 240 N. Sixteenth street; Abel Bottoms & Sons Co., 3611 Walnut street, Philadelphia; J. W. Meekert, Ridley Park, Pa.; J. D. Durnall, Swarthmore, Pa., and J. Howard Roberts, Lansdowne, Pa., are figuring.

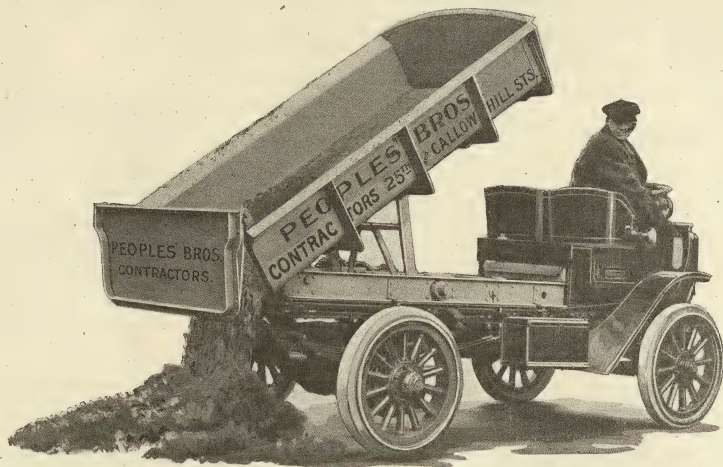
School Building, Swarthmore, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Mary Lyon School, Swarthmore, Pa. Stone and brick or hollow tile and plaster, 2 and 3 stories, slate roof. Plans in progress.

Residence Merion, Pa. Architects, Wallace & Warner, Real Estate Trust Building, Philadelphia. Owner, W. W. Seary, 28 S. Sixth street, Philadelphia. Hollow tile and stucco, 2½ stories, 35x44 feet, slate roof, hardwood floors, hot water heating, electric lighting. tile work, metal lath. Architects have received sub-bids.

Passenger Shelter, St. Davids, Pa. Architect, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Steel, timber and concrete, 125x15 feet, slate roof, pine floor. Owners taking bids, due April 12th. Metzger & Fisher, Denckla Building; E. E. Hollenback, Inc., 1804 Bradywine street; J. Sims Wilson Co., 1126 Brown street, and Monaghan & Lesse, Inc., 3016 Chestnut street; F. A. Havens & Co., 845 North Nineteenth st., are figuring.

Residence and Garage, Gilmann and Station avenues, Langhorne, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owner, H. C. Parry, Langhorne, Pa. Hollow tile and stucco, 2½ stories, 30x50 feet; garage, 1½ stories, 21x24 feet, slate roof, warm air heating, electric lighting, hardwood floors, hollow tile. Architects taking bids, due April 16th at noon. The following are figuring: J. T. Taylor, Langhorne, Pa.; F. Ewald, Morrisville, Pa., and D. G. McClanen, Newtown, Pa.

Residence, Highland Park, Pa. Architect, private plans. Owner, Maurice R. Massey, Thirteenth and Green streets, Philadelphia. Frame and shingle, 2½ stories, 26x35 feet, shingle and tin roof, (plumbing, heating, gas fitting and fixtures reserved), pine floors. Franklin Eng. & Const. Co., Bulletin Build-



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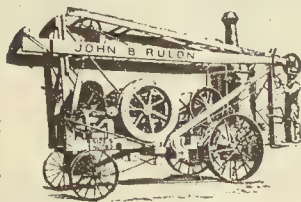
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ing, Philadelphia, is taking sub-bids, due as soon as possible.

Residence, Fenby road, Llanerch, Pa. Architect, Walter Thomas Mayo, 1701 Chestnut street, Philadelphia. Owner, Baxter Reynolds, Land Title Building, Philadelphia. Hollow tile and plaster, 2 stories, 32x30 feet and 8x14 feet, slate and tin, shingle and canvas roof, (gas and electric fixtures, gas piping reserved) hot water heating, electric lighting, tile work, oak and gum floors, metal lath. Owners taking bids, due as soon as possible. M. Roy Sheen, Heed Building; Robt. G. Ward, 633 N. Sixty-third street, Philadelphia, are figuring.

Farmers Cottage, Whitmarsh, Pa. Architects, Morris & Erskine, Crozier Building, Philadelphia. Owner, Rollin Norris, care of U. G. I. Co., Broad and Arch streets, Philadelphia. Frame and clapboard, 2 stories, 48x17 feet, shingle roof, pine floors (heating and lighting reserved). Architects taking bids, due April 13th. Jas. B. Flounders, 1329 Arch street; H. E. Grau Co., 1709 Sansom street; Wm. J. Gruhler Co., 219 E. High street; Specht & Sperry, Heed Building, and John Stackhouse, Ambler, Pa., are figuring.

Residence, Radnor, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Isaac H. Clothier, Jr., Radnor, Pa. Stone and pebble dash, 3 stories, 170x60 feet, shingle roof, (heating fixtures, electric wiring, interior decorating, hardwood floors reserved), steam heating, tile and marble work, metal lath, coal life and (1) passenger elevator, (metal weatherstrips reserved). Architect taking bids, due April 12th. Geo. F. Payne & Co., 401 S. Juniper street; Irwin & Leighton, 126 N. Twelfth street; Geo. A. Fuller & Co., Widener Building; Stacy Reeves & Sons, 2011 Market street; Doyle & Co., 1619 Sansom street and Milton W. Young, Overbrook, Pa., are figuring.

Apartment Houses (33) and Garage, Seventh and Edgemont streets, Chester, Pa. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, name withheld. Brick, terra cotta trimmings, 2 (3) and 1 (4) stories, 20x80 feet, 37x50 feet; garage, 1 story, 92x80 feet, slag roof, steam heating, electric lighting, tile and marble work, hardwood floors. Plans in progress.

Residence (int. alt.), 140 E. Seventh street, Chester, Pa. Architects, Golden & Greenstein, Cambridge Building, Chester, Pa. Owner, William B. Northam, Twenty-fourth and Wetherill street, Chester, Pa. Brick, slag roof, steam heating, electric lighting, pine and cement floors, fire escapes, wire work. Architects taking bids, due as soon as possible. Jas. B. Flounders, 1329 Arch street, Philadelphia, figuring.

Twin Residences (2), Chambersburg, Pa. Architect, Andrew C. Borzner, 721 Walnut st., Philadelphia. Owner, Jacob G. Schaff, Chambersburg, Pa. Brick, hollow tile and plaster, 2 stories, 16x40 feet, flexatile roof, pine floors, electric lighting, hot water heating, tile work. Owner is taking bids.

Lodge Building, Bridesboro, Pa., \$20,000. Architect, G. L. Gerhard, 619 Pen street, Reading, Pa. Owners, Orioles Home Association of Birdsboro, Birdsboro, Pa. Brick, 3 stories, 50x80 feet, slag roof (vapor heating reserved), electric lighting, wood floors, dumb-waiter, fire escapes, iron stairs. Plans in progress.

Church and Sunday School, Topton, Pa. Architects, Stetler & Mengel, Wyomissing, Pa. Owners, St. Peters Ref. Congregation, care of Rev. Geo. Smith, Kutztown, Pa. Brick, 1 story and basement, 50x130 feet, slate roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Garage and Hail Building, Eighth and Bingham streets, Reading, Pa. Architect, G. C. Freeman, Reading, Pa. Owner, Michael Wolicka, on premises. Brick, 2 stories, 65x50 feet, slag roof (heating not decided), wood floors, electric lighting, metal lath, gasoline storage system. Plans in progress.

Garage, Wyomissing, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owner, Geo. Mayer, Wyomissing, Pa. Hollow tile and stucco, 1½ stories, 25x32 feet, slate roof, electric lighting, wood floors. Plans in progress.

Bungalow, Hamburg, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owner, W. E. Schmick, Hamburg, Pa. Stone, 1½ stories, 32x51 feet, shingle roof, wood floors. Plans in progress.

School (add.), Rockledge, Montgomery Co., Pa. Architect, Christian H. Fries, 8129 Pine Road, Fox Chase, Philadelphia. Owners, Board of Education of Rockledge, Montgomery Co., Pa. Brick, 2 stories. Owners ready for bids, due April 23rd at 8 P. M. Plans may be obtained from architect.

Bungalow, Coatesville, Pa. Architects, MacGinnis & Slawter, National Bank Building, Coatesville, Pa. Owner, Minor Hannum, Coatesville, Pa. Stone, 1½ stories, 33x45 feet, shingle roof, hot water heating, electric lighting, wood floors. Plans in progress.

Apartment House, Coatesville, Pa. Architect, private plans. Owner, Wm. S. G. Cook, Coatesville, Pa. Brick, 3 stories, 220x34 feet, slag roof, steam heating, wood floors, electric lighting. Plans in progress.

Sewage System (add.), West Chester, Pa. Borough engineer, Nathan Rambo, West Chester, Pa. Consulting engineers, Remington & Vosbury, Camden, N. J. Addition to present system, pumping station and cast iron pipe main. Owners, City of West Chester, Borough Hall, Pa., will take bids, due April 25th. Will advertise in about one week.

Residence (alt. and add.), Willow Grove Pike, above Royal avenue, Glenside, Pa. Architect, Jacob Naschold, 210 New street, Philadelphia. Owner, S. Ervin Diehl, 250 North Third street, Philadelphia. Stone, frame and plaster, 2nd-story addition, 16x34 feet, slag roof, electric work, heating and plumbing reserved), pine and cement floors, tile work,

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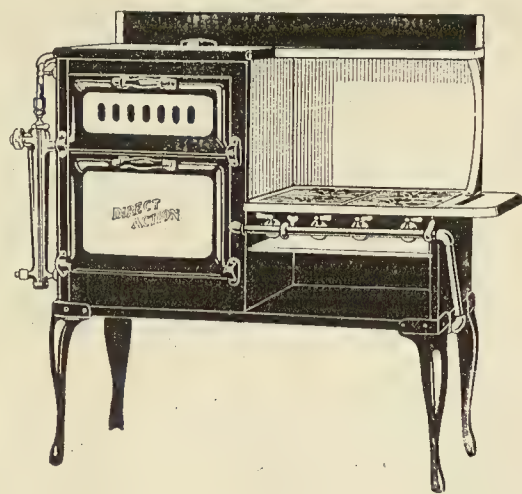
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metal lath. Architect taking bids, due April 18th. Specht & Sperry, Heed Building; Jas. M. Tighe Co., 245 North Eleventh street; Wm.

C. Wright, 22 Harvey street, Germantown, and Jacob Y. Loux, 1121 Rising Sun avenue, are figuring.

PENNSYLVANIA

Contracts Awarded

Residence, Cynwyd, Pa., \$7,000. Architect, Theo. F. Dillon, 130 South Fifteenth street, Philadelphia. Owner, E. C. Jacoby, Narberth, Pa. Stone and stucco, 2½ stories, 23x50 feet, shingle roof, oak floors, steam heating, electric lighting, tile work. Contract awarded to Samuel T. Atherholt, Narberth, Pa.

Residence, Merion, Pa., \$6,200. Architect, Theo. F. Dillon, 130 South Fifteenth street, Philadelphia. Owner, J. Reynolds Pierpont, northwest corner Broad and Spring Garden streets. Frame and stucco, 2 stories, 23x45 feet, shingle roof, oak floors, steam heating, electric lighting, tile work. Contract awarded to Samuel T. Atherholt, Narberth, Pa.

Engine and Power House and Lunch Room (alt. and add.) and Coal Pockets, Rutherford, Pa., \$50,000. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Concrete, stone, brick and steel, 1 story, 61x66 feet, 12x82 feet, 22x24 feet and 58x30 feet, slag and asbestos roof, concrete and pine floors, fire doors, (lighting reserved). Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Residence, Winona avenue, Norwood, Pa., \$5,500. Architect, Private plans. Owner, Clinton W. Smullen, Prospect Park, Pa. Stone and stucco, 2½ stories, 25x45 feet, slate roof, oak floors, hot water heating, electric lighting, tile work. Contract awarded to Bert R. Parker, Glenolden, Pa.

Garage, Bustleton, Pa., \$6,000. Architect, private plans. Owner, John Barber, Bustleton, Pa. Brick and steel, 48x75 feet, slag roof, cement floors. Contract awarded to Edw. T. Bender, 6014 Torresdale avenue.

Residence and Garage, Reading, Pa. Architect, Robert A. Stair, York, Pa. Owner, Mrs. Nellie O. Baer, Reading, Pa. Stone, 3 stories, and 2 stories. Contract awarded to L. H. Focht & Son, Reading, Pa.

Boys Home, 921 Schuylkill avenue, Reading, Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, Berks Co. Commissioners, Reading, Pa. Brick and stone, 3 stories, 80x150 feet, slag roof, hardwood and tile floors, vapor heating, combination lighting, tile work, metal lath, dumbwaiters, fire doors, metal weatherstrips, waterproofing and dampproofing. Contract awarded to H. J.

Raudenbush, Perkiomen avenue, Reading, Pa.

Roof Covering, between buildings No. 14 and No. 15, Reading, Pa. Architects, Muhlenburg Bros., Reading, Pa. Owners, Carpenter Steel Works, Reading, Pa. Corrugated sheet iron 200x26 feet. Contract awarded to Daniel H. Hunter, Reading, Pa.

School (add.), Ninth and Highland avenue, Chester, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, R. C. Church of the Resurrection, care of Rev. A. L. Ganster, Ninth and Highland avenue, Chester, Pa. Brick, stone and terra cotta, 2 stories, 72x119 feet, slag roof, cement and pine floors, hollow tile and metal lath, hollow metal sash, fire and kalamein doors, roof ventilators, metal window guards, waterproofing and dampproofing (heating and lighting reserved). Contract awarded to Melody & Keating, 1322 Race street, Philadelphia.

Dormitory Building, Swartmore, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Mary Lyon School, Swartmore, Pa. Stone and brick or hollow tile and plaster, 3 stories, 200x39 feet and 45x84 feet, slate roof (steam heating, plumbing and electric work reserved), oak and cement floors, metal lath, leaded glass, fire doors. Contract awarded to Flounders Bros., Media, Pa.

School and Auditorium, Sharon Hill, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Holy Spirit Parochial School, care of Rev. Jos. P. Monville. Brick, steel and concrete, stone trimmings, 2 stories and basement, 125x38 feet and 45x17 feet, slag roof, cement, maple and pine floors, metal lath, waterproofing and dampproofing (heating and electric work reserved). Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut st.

School (add.), Oakmont, Del. Co., Pa., \$30,000. School (interior finish to second story), Brooklin, Del. Co., Pa. Architect, D. Knickerbocker Boyd, Otis Building, Philadelphia. Owners, School District of Haverford, Jos. W. Huff, secretary, School Board, Oakmont, Pa. Brick and stone, 2 stories and basement, 68x6 feet feet and 24x32 feet, slate roofs, pine and cement floors, metal lath and casements, ventilators (steam heating, plumbing, ventilating and electric work separate bids. Con-



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tracts awarded to Standard Const. Co., 1713 Sansom street, on Oakmont School; Eugene G. Beard, Llanerch, Pa., on Brookline School.

Factory and Office Building, Pottstown, Pa. Architect, Arthur S. Kepner, Pottstown, Pa. Owners, North American Motor Co., Pottstown, Pa. Brick and steel, 1 story, 302x73 feet, 2 stories, 74x30 feet; slag roof, cement and pine floors, metal lath, waterproofing, metal lockers (heating and electric lighting reserved). Contract awarded to F. H. Kaiser & Co., Pottstown, Pa.

Residence (alt. and add.), Lansdowne, Pa., \$3,000. Architect, private plans. Owner, W. A. McEwen, Lansdowne, Pa. Brick, 4 stories, porch addition and interior alterations, electric light, tile work. Contract awarded to Wm. Henderson & Son, 327 South Twentieth street.

Residence (alt. and add.), Coatesville, Pa. Architects, Kerns & Carroll, 242 Main street, Coatesville, Pa. Owner, Dr. Stone, Coatesville, Pa. Frame and stucco, 3 stories, slate roof, vapor heating, electric lighting, hardwood floors, tile work. Contract awarded to Westley Beard, Coatesville, Pa.

Residence (alt. and add.), Doylestown, Pa., \$7,000. Architects, De Armond, Ashmead & Bickley, 1519 Walnut street, Philadelphia. Owner, W. Atlee Burpee, Jr., 475 North Fifth street, Philadelphia. Addition, brick and plaster, 1 story, tin roof, vapor vacuum heating extension, electric wiring, hardwood floors, tile and stone work. Contract awarded to David D. Nyce, Doylestown, Pa.

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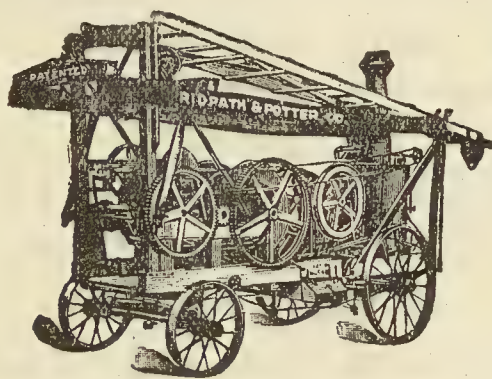
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NEW JERSEY Construction News

High School, Cape May Court House, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board of Cape May Court House, N. J. Brick, 3 stories, 96x94 feet, slag roof, steam heating, electric lighting, metal lath, yellow pine floors. Owners will take revised bids, due April 16th.

Fire House, Penna. avenue, Atlantic City, N. J., \$25,000. Architects, Stout & Reibenack, Guarantee Trust Building, Atlantic City. Owners, Dept. of Public Safety, City of Atlantic City, N. J. Brick and terra cotta, 2 stories, 37x100 feet, tile roof, hot water heating, electric lighting, metal lath, concrete and yellow pine floors. Owners will take bids in a few days.

Fire House, Indiana avenue, Atlantic City, N. J. Architect, G. Vaughn Mathias, Guarantee Trust Building, Atlantic City. Owners, Dept. of Public Safety, City of Atlantic City, N. J. Brick, 2 stories, 30x110 feet, tile roof, cement floors, electric lighting, tile and marble work, metal lockers. Owners will take bids in a few days.

Music Pavilion, Ocean City, N. J., \$20,000. Architect, Otis M. Townsend, Ocean City, N. J. Owners, Dept. of Public Property, City of Ocean City, N. J. Frame and concrete, 1 story, 50x70 feet, slag roof, wood floors, electric lighting. Architect taking bids, due April 10th. E. P. Larson, Stone Harbor, N. J., and Chas. Curson, Linwood, N. J., are figuring.

Municipal Pier, Somers Point, N. J., \$3,000. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owners, City of Somers Point, Somers Point, N. J. Frame, auditorium, 24x40 feet, approach 200x8 feet, composition roof, electric lighting, yellow pine floors. Architect ready for bids, due April 14th.

Hotel, S. Penna. avenue, Atlantic City, N. J., \$325,000. Architects, Stout & Reibenack,

Guarantee Trust Building, Atlantic City. Owner, Wm. Riddle, Atlantic City, N. J. Brick and steel, 12 stories, 52x123 feet, slag roof, vapor heating, cement and wood floors, combination lighting, metal lath, waterproofing, fire doors, elevators, dumbwaiters, tile and marble work. Plans in progress.

Apartment House, Providence, Atlantic City, N. J., \$10,000. Architect, Wm. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Daniel W. Short, 127 S. Tenn. ave., Atlantic City, N. J. Brick, 3 stories, 21x76 feet, slag roof, hot water heating, combination lighting, metal lath, tile work, wood floors. Plans completed.

Garage, Vineland, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Evan E. Kimble, Vineland, N. J. Brick and hollow tile, 2 stories, 32x35 feet, tile roof, hot water heating, electric lighting, cement and pine floors. Jos. B. Rowen, Moorestown, N. J., is taking sub-bids.

Stone Men's Barracks, Stone Harbor, N. J., \$12,000. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Frame, 3 stories, 66x130 feet, asphalt shingle roof, pine floors, electric lighting. Plans completed. Owners ready for bids in a few days.

Office Building (alt. and add.), Fifth and Market streets, Camden, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware & Atlantic Telegraph and Telephone Co., Camden, N. J. Reinforced concrete, brick and steel, stone trim, 2 stories and basement, addition 39x42 feet, slag roof, steam heat, electric light, marble, terrazzo, composition and cement floors, hollow metal sash and skylights and doors, hollow tile, metal lath, roof ventilators, metal window guards,

waterproofing, ornamental iron work. Architect taking bids, due April 17th. H. E. Baton, Twelfth and Sansom streets; F. A. Havens & Co., 845 North Nineteenth street; Cramp & Co., Denckla Building; F. L. Hoover & Sons, 1023 Cherry street, are figuring.

Residence and Garage, Haddonfield, N. J., \$15,000. Architects, Custer & Seltzer, 302 Market street, Camden, N. J. Owner's name withheld. Hollow tile, 2½ stories, 48x45 feet, shingle roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Garage, Hamilton avenue, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Judge Rellstab, Trenton, N. J. Brick or stucco, 2 stories, 22x23 feet, slate roof, cement and wood floors, electric lighting. Architects have received bids.

State Prison (alt.), Trenton, N. J., \$44,000. Architect, George . Drew, State Capitol, Trenton, N. J. Owners, State of New Jersey, Capitol Building, Trenton, N. J. Stone, 2 stories, 140x40 feet, concrete floors. Plans in progress.

Factory Building, Trenton, N. J. Architect, J. P. Pette, 131 Jackson street, Trenton, N. J. Owner, Harry Haveson, South Broad street, Trenton, N. J. Brick, 1 story, 36x180 feet, slag roof, steam heating, electric lighting, concrete and wood floors. Owner taking sub-bids.

Residence, Stone Harbor, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Frame, 1 story, 40x21 feet, asbestos shingle roof. Plans completed. Architect will take bids in a few days.

Dormitory Building, New Jersey School for Deaf, Trenton, N. J. Architect, George S. Drew, Capitol Building, Trenton, N. J. Owners, New Jersey State Board of Education, State House, Trenton, N. J. Brick, 3 stories and basement, 35x113 feet, slag roof (heating and lighting and plumbing reserved), concrete and pine floors, tile and marble work, metal window guards, dampproofing, iron stairs. Low bidders: Nickson-Duggan Const. Co., 1218 Chestnut street, \$45,286; Burton & Burton, American Mechanics' Building, Trenton, \$45,850.

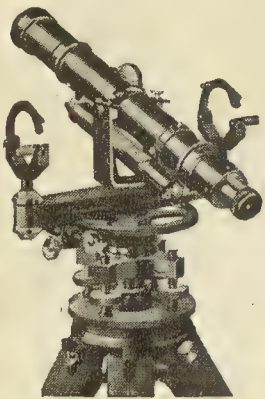
Warehouse, Camden, N. J. Architects, Balingier & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Joseph Campbell Co., Camden, N. J. Brick, steel and concrete, 3, 4 and 5 stories, 80x145 feet, composition roof (heating, lighting and plumbing reserved), metal sash. Architects taking bids. Cramp & Co., Denckla Building; Warren-Moore Co., Commercial Trust Building; Irwin & Leighton, 126 North Twelfth street; Barclay White & Co., 1713 Sansom street, and Turner Concrete Steel Co., 1713 Sansom street, Philadelphia, are figuring.

New Jersey Contracts Awarded

Apartments and Cafe (alt. and add.), 105 North Warren street, Trenton, N. J., \$12,000. Architect, R. A. Schuman, Lambert street, Trenton, N. J. Owner, Louis Miller, care of architect. Brick, 4 stories, 22x126 feet, steam heating, electric lighting, metal lath, 1 dumb waiter. Contract awarded to Joseph Trier, carpentry work, and Wm. Hicks, masonry work, both of Trenton, N. J.

Department Store, Broad and Front streets, Trenton, N. J. Architects, Kleeman & Fow-

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136 N. 12th Street

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Instruments
For Sale
or Rent

ler, Second National Bank Building, Trenton, N. J. Owners, Goldberg Department Store Co., Trenton, N. J. Brick, 4 stories, 22x220 feet, slag roof, steam heating, electric lighting, metal lath, sprinklers, tile and marble work, hardwood floors, 1 elevator, weather-strip. Contract awarded to H. & M. Levy, Trenton, N. J.

Y. M. H. A. (alt. and add.), South Stockton street, Trenton, N. J. Architects, Kleeman & Fowler, First National Bank Building, Trenton, N. J. Owners, Y. M. H. A., Trenton, N. J. Brick, 3 stories, 8x36 feet, glass bulkheads, hot water heating, electric lighting, cement floors, hollow tile, dumb waiters, safety treads, tile and marble work. Contract awarded to H. & M. Levy, Trenton, N. J.

Glass Factory, Palmyra, N. J., \$10,000. Architect, Frank V. Nickels, 1539 Real Estate Trust Building, Philadelphia. Owners, Philadelphia Rich Cut Glass Mfg. Co., care of architect. Brick (mill const.), 1 story and basement, 26x100 feet, slag roof, plank floors, rolled steel sash, dumb elevators (steam heating, electric work and plumbing reserved). Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Garage and Servants' Quarters, Atlantic City, N. J. Architects, Smith & Henderer, Sheen Building, Atlantic City, N. J. Owners, Hotel Rudolph, Atlantic City, N. J. Brick, 2 stories, 100x50 feet, slag roof, electric lighting, cement and wood floors. Contract awarded to Chas. Curson, Linwood, N. J.

Bungalows (34), Stone Harbor, N. J., \$16,000. Architect, private plans. Supervising architects, Heacock & Hokanson, 1218 Chestnut street. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Asbestos-crete, 1 story, 12x24 feet, pine floors, plumbing, electric lighting. Contract awarded to Keasbey & Mattison Co., Ambler, Pa.

Club House (alt. and add.), 635-57 Market street, Camden, \$10,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Camden Lodge, No. 111, L. O. O. M., on premises. Brick and stone, 1 and 2 stories, 18x90 feet and 30x36 feet, slag roof, steam heating, electric lighting, metal lath, gum and composition floors, metal lockers (heating, plumbing and electric wiring reserved). Contract awarded to Harry C. Sharp, 410 Main street, Camden, N. J.

MARYLAND

Construction News

School, Galena, Md., \$7,000. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, School Commissioners, Galena, Md. Frame and concrete, 2 stories and basement, 31x51 feet, shingle roof, steam heating, electric lighting, wood floors. Owners taking revised bids.

Building (alts.), 220 West Pratt street, Baltimore. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owners, Wayne Safe & Lock Co., 224 West Pratt street, Baltimore. Consists of general interior alterations, new stairway, metal ceiling, plastering, concrete, plumbing, electric lighting, painting, glazing and hardware. Plans completed. Architect ready for bids.

Bank and Office Building, Holliday and Baltimore streets, Baltimore. Architects, Baldwin & Pennington, 330 North Charles street, Baltimore. Owners, German Bank, John P. Lauber, vice-president, on premises. Brick, terra cotta and stone, 4 stories, slag roof, electric lighting, steam heating, copper work, skylights, ventilators, reinforced concrete work, fireproofing, dampproofing, tile, marble, slate and terrazzo work. Plans in progress.

Dairy Barn, Rock Creek, Anne Arundel Co., Md. Architects, J. Harry & F. J. Thuman, 2508 North Charles street, Baltimore. Owners, John H. & Louis A. Dockman, 32x34 Mont-

gomery street, Baltimore. Brick and frame, 1 story, 38x116 feet, slate roof, electric lighting. Revised plans in progress. Will be ready for bids in a few days.

Residence, Green Spring Valley, Baltimore, Md. Architect, J. F. Nelker, 330 North Charles street, Baltimore. Owner's name withheld. Stone, 2½ stories, 31x49 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Residences (500), St. Helena, Md. Architect, E. L. Palmer, Munsey Building, Baltimore. Owners, Eastern Land Co., E. H. Bouton, president, Munsey Building. Brick or concrete and stucco, 2½ stories, slate or composition roofs, hot air heating, electric lighting, fireproofing, tile work, plumbing. Plans in progress.

Residence, Charles Street avenue, Baltimore, \$25,000. Architects, Sill, Buckler & Fenhagen, 11 East Pleasant street, Baltimore. Owner, N. Winslow Williams, Fidelity Building, Baltimore. Brick, 2½ stories, slate roof, electric lighting. Plans in progress.

Apartment House, Thirty-sixth, Greenway and St. Paul streets, Baltimore. Architects, Thomas & Rice, Union Trust Building, Baltimore. Owner, George R. Debnam, Union Trust Building, Baltimore. Brick, stone and stucco, 4 stories, 106x41x84 feet, tile and tin roof, vapor heating, electric lighting, fire escapes,

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skylights, ventilators, dampproofing, metal lath, tile, marble, slate or terrazzo work, dumb waiters, cement floors, metal windows and doors. Low bidder, J. Henry Miller, Inc., Eutaw and Franklin streets, Baltimore.

Bungalows (2), Oakfield, near Springdale, Md., \$7,200. Architect, private plans. Owners, Murray & Haynes, Garrison and Duval avenues, Baltimore. Brick, 2 stories, 28x41 feet, slag or tin roof, electric lighting. Owners taking sub-bids.

Store and Dining Rooms, 525 North Howard street, Baltimore. Architect, Fred E. Beall, 306 St. Paul street, Baltimore. Owner, Carl G. Hilgenberg, Westport, Md. Brick, 3 stories, glass ceiling, tin roof, metal front, electric lighting, tile and marble work. J. Erdman, builder, wants sub-bids on premises.

Maryland

Contracts Awarded

Apartments, Walbrook avenue, west of Liberty Road, Baltimore, \$22,000. Architect, Stanislaus Russel, 2900 Clifton avenue, Baltimore. Owners, Oakland Apartment Co., E. H. Sadtler, Equitable Building, Baltimore. Brick, 3 stories, 41x100 feet, slag roof, steam heating, electric lighting, galvanized iron work, dumbwaiter, fireproof floors, concrete work (lighting fixtures reserved), painting, plumbing, gas ranges. Contract awarded to C. W. Littleton & Son, 4313 Liberty street, Baltimore.

Residence, Roland Park, Md. Architects, Sill, Buckler & Fenhagen, 11 East Pleasant street, Baltimore. Owner, Theo. A. Steinmuller, 2528 Madison avenue, Baltimore. Brick, marble trim, 2½ stories, 28x42 feet, slate roof, electric lighting, tile and marble work, vacuum cleaning system (heating, lighting fixtures and weather strips reserved). Contract awarded to Gladfelter & Chambers, Thirty-sixth street and Boland avenue, Baltimore.

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1927 W. Montgomery Avenue, Philadelphia, Pa.

Factory, Race and Ostend streets, Baltimore. Architect, Charles M. Anderson, 324 North Charles street, Baltimore. Owners, National Enameling and Stamping Co., 1901 Light street, Baltimore. Brick, concrete foundations, 4 stories, slag roof, granite and terra cotta trim, skylights, fire doors and shutters (elevator, heating, plumbing and electric wiring reserved). Contract awarded to John Waters Building Co., 23 East Center street, Baltimore.

Office Building, Clinton street, Baltimore. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Union Station, Baltimore. Brick and terra cotta trim, 3 stories and basement, 18x30 feet, slag roof, steam heating, electric lighting, terrazzo work, wood roof, steam heating, electric lighting, terrazzo work, wood and cement floors. Contract awarded to Milton C. Davis, 902 West Thirty-sixth street, Baltimore.

Miscellaneous Construction News

Y. W. C. A. Building, Tenth and Kind sts., Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Y. W. C. A., on premises. Brick and stucco, 5 stories front and 4 stories rear, 134x74 feet, slag roof (heating not decided), yellow pine floors, electric lighting, metal lath, hollow tile partitions, (1) elevator, metal lockers, (2) dumbwaiters, terrazzo work, tile and marble work. Plans about completed. Architect taking bids on masonry due as soon as possible.

Hospital, Eighth and Adams streets, Wilmington, Del. Architect, W. E. Hance, 204 W. Twenty-fourth street, Philadelphia. Owners, Physicians and Surgeons Hospital, Building committee, on premises. Brick, 3 stories, 27x80 feet, slag roof, electric lighting, metal

lath, waterproofing, wood floors, elevators, dumbwaiters, tile and marble work. Plans in progress.

Gun Shop, Washington, D. C. Architect, private plans. Owners, U. S. Government, F. R. Harris, chief of bureau, Washington, D. C. Reinforced concrete, steel and hollow tile, 1 story, 504x216 feet, composition and slag roof, rolled steel sash, fire doors. Owners have received bids.

Church, Fifteenth and Monroe streets, Washington, D. C. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, First Reformed Church, Washington, D. C. Brick and stone, 1 story and basement, 70x75 feet, slate roof. Plans in progress.

Miscellaneous Contracts Awarded

Bank (alt. and add.), Fifth and Market sts., Wilmington, Del. Architects, Brown and Whiteside, Dupont Building, Wilmington, Del. Owners, Central Bank, Wilmington, Del. Brick and stone, 3 stories, 23x116 feet, electric lighting. Contract awarded to John E. Healey & Son, 707 Tatnall street, Wilmington, Del.

Church, Gary, Ind. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, First Reformed Church, Gary, Ind. Stone, hollow tile and plaster, 1 story and basement, 50x75 feet, slate roof, steam heating, electric lighting, pine floors. Contract awarded to Frank Ickenbary, Gary, Ind.

Permits for New Buildings

Dwelling, 76th and Avenue F. \$1,300. (O and C) Herman Raech, Jr., 76th below Buist avenue. Brick, 2 story, 14x38, asbestos shingles, hot air heating.

Factory, 6th and Filbert streets. \$500,000. (O) Hale & Kilburn, 19th and Lehigh avenue; (C) Cramp & Co., 11th and Market streets. Brick, 8 story, 122x139, slag roof.

Shed, Carbon and Kingston streets. \$500. (O and C) N. G. Ihis, Broad and Arch. Frame, 25x50.

Garage, 1869 Wynnewood road. \$700. (O) J. Albert Potter, on premises; (C) W. P. Johnson, 4039 Lancaster avenue. Brick, 1 story, 11x21, slate roof.

Garage, 937 Wynnewood road. \$970. (O) W. G. Rolin, on premises; (C) W. P. Johnson, 4039 Lancaster avenue. Brick, 1 story, 16x21, slate roof.

Garage, 6126 Wassan street. \$700. (O) Chas Buckley, on premises; (C) W. P. Johnson, 4039 Lancaster avenue. Brick, 1 story, 13x19, tin roof.

Storage, Nixon and Leverington. \$3,000. (O) Collins & Airman, 4675 Nixon street; (C) Barclay White, 1713 Sansom street. Brick, 1 story, 27x82, slag roof.

Dwellings (94), Hancock and Shunk sts. \$191,000. (O and C) A. Berman, 2502 S. 3rd street. Brick, 2 story, 14x24, slag roof, hot air heating.

Dwellings (9), 59th Shunk. \$18,000. (O and C) A. Berman, 2502 S. 3rd street. Brick, 2 story, 14x24, slag roof, hot air heating.

Ice House, 20th and McKean streets. \$15,000. (O) Standard Ice Co., 27th and South streets; (C) Herman Voigt, 28th and Thompson streets. Brick, 1 story, 33x138 slag roof, cement floor.

Shop, 1231 S. Phillip street. \$1,800. (O) C. Engle Ksant, 1226 S. 2nd street; (C) H. D. Prettyman, 2603 S. Broad street. Brick, 2 story, 16x24, slag roof.

Dwelling, 4338-36 North street. \$1,200. (O) Joseph Courtneil, 4763 North street; (C) Thomas Lummer, 4773 North street. Brick, 1 story-2 story, slag roof, front porch.

Rooming, 423 S. 8th street. \$700. (O) Penna. Co., 517 Chestnut street; (C) Brownworth, 1611 Sansom street, Standard fire escape.

Alterations and Additions

Dwelling, Porter and Beulah. \$1,450. (O) Dr. Saul L. Baron, 712 Porter street; (C) Albert Lashner, 1628 S. Orkney street. Brick, 1 story front, addition, 16x6.

Theatre, Broad and Fairmount avenue. \$10,000. (O) W. Nevin, Phila.; (C) F. L. Hoover & Sons, 1023 Cherry street. Interior alterations.

Garage, Broad and Fishers lane. \$1,500. (O) G. Seidel & Co., on premises; (C) Jake Novak, 936 S. 4th. Fire repairs.

Dwelling, 2001 Delancey place, \$1,700. (O) Phila. Trust Co., 417 Chestnut street. (C) Joseph Price, 2048 Rittenhouse street. Rebuild entire new front.

Shed, 1716 Arch street. \$350. (O) Lutheran Publication Soc., on premises. (C) Jos. Price, 2048 Rittenhouse street. Steel plate, 19x28 and 12x13 high.

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Store and Dwelling, 4014-16 Germantown avenue. \$500. (O) H. A. Weidman, on premises. (C) McLaughlin & McNamara, 3973 Elser street. Fire repairs.

Dwelling, 2029 E. Madison avenue. \$700. (O) H. M. McFaugh, 2027 E. Allegheny avenue. (C) W. R. Brown, 2145 E. Fifth street. Brick shed, 15x156, slag roof.

Dwelling, 1509 W. Girard avenue. \$3,000. (O) A. F. Boronski, 6104 N. 11th street. (C) Jos. Hughes, 3431 Ridge avenue. Brick, 3 story rear additions, 12x18, and interior alterations.

Dwelling, 1720 Latona street, rear. \$400. (O) V. Marchion, on premises. (C) Salvatore Colavita, 1409 S. 15th street. Brick, 1 story, 11x15, tin roof.

Store and Dwelling, 1858 N. Van Pelt street. \$600. (O and C) Manuel Hurevitz, 831 N. 6th street. Changing front windows.

Dwelling, 2102 W. Indiana. \$800. (O) R. Di Benedetto, on premises. (C) C. Salvata, 2910 N. Van Pelt. Front porch.

Dwelling, 1215 Thompson street. \$400. (O) Matthew Guffin, 46th and Walnut. (C) A. G. Smith, 2135 N. 63rd street. Rebuilding stairway.

Store, Offices, 844 N. Broad street. \$900. (O) Mrs. Lillian Lesley, Swarthmore, Pa. (C) Ed. S. Hatzfeld, 1828 N. 16th street. Iron on iron, 1 story, 15x35.

Dwelling, 1291 Delancey street. \$20,000. (O and C) De Amond Ashman & Bickley, 1529 Walnut street. Brick, 4 story, rear additions, 22x14; brick, 2 story, rear additions, 12x16.

Garage, 27th and Sergeant streets. \$1,250. (O) Morris S. Hilder, 306 E. Ontario. (C) Ira K. Davis, 2400 W. Oakdale street. Fire repairs.

Dwelling, Sycamore avenue, Mitchell street. \$1,800. (O) John Eichman, 140 Green lane. (C) Keller Bros., 480 Harmin road. Stone and frame, 2 story, 8x16, addition.

Dye House, American and Huntingdon. (O) Stead & Miller, 4th and Cambria sts. (C) Harry Brocklehurst, 512 W. Morris st. Brick, 1 story, additions, 25x50, slag roof.

Warehouse, 116-114 S. Delaware avenue. \$2,000. (O) Merchants' Warehouse Co., 110 S. Delaware avenue. (C) Barclay White, 1713 Sansom street. Brick fire walls and fire doors.

Dwelling, 1508 Allegheny avenue. \$6,000. (O and C) W. Schaum, on premises. Brick, 2nd story rear additions, 22x17, sun parlor and rear porch.

Dwelling, 1306 S. 10th street. \$800. (O) Isacca Nasife, on premises. (C) Mechal Cipriano, 1134 Watkins. Lower floor, remove stairway.

Dwelling, 3510 Lancaster avenue. \$450. (O) Penna, Working Home for the Blind, on premises. (C) Robert McCracken, 3333 Spring Garden street. New front porch.

Machine Shop, Edgewood and Media. \$1,000. (O) Frank Jones, on premises. (C) Neirille P. Enochs, 842 S. Alden street. Brick, 1 story, 11x48.

Dwelling, 16th and Huntingdon streets. \$629. (O) Simon Forry, on premises. (C) R. S. Heckler, Lansdale, Pa. Hot water heating plant.

Store, 1010 Chestnut street. \$975. (O) Augusta H. Wilbie, Sewell Point, Fla. (C) F. Basch & Co., 1420-36 S. Front street. New flush bulks.

Dwelling, 2nd and Clarkson avenue. \$850. (O) Wm. Russell, on premises. (C) Geo. R. Dewees, 311 Grange avenue. New cellar under shed, cement floor.

Rooming House, 2028 Chestnut street.

\$950. (O) The Phila. Trust, 415 Chestnut street. (C) Brownworth Co., 1611 Sansom street. Standard fire escape.

Experimental Building, Passyunk avenue, River road. \$1,200. (O and C) Atlantic Refining Co., 3144 Passyunk avenue. Brick, 1 story addition, 15x29.

Factory, 1527 Walnut street, rear. \$960. (O) Hughes & Muller, on premises. (C) Chas. H. Zebley, Pine and Quince streets. New stairway in fire tower.

Dwelling, 4647 Leiper street, \$2,000. (O) Daniel Greenwood, on premises. (C) C. West & Co., Oxford avenue and Wakeling street. New bath room and new window.

Dwelling, 2359 Orthodox street. \$750. (O) Maryan Kaminski, on premises. (C) K. Zultowski, 2976 Melvale. Brick, 2 story additions, 16x10, slag roof.

Dwelling, 1911 S. Front street. \$1,250. (O) Gilleror Delicatessen Co., 1909 S. Front street. (C) J. S. Levin Co., 1130 S. 6th street. Fire repairs.

Store, 15 South Second street. \$350. (O) P. Rosenthal, on premises. (C) S. Baumfelt, 3024 South Eighty-fourth street. Square up, 1/2 story, 9 feet, brick wall.

Store and Dwelling, 2727 East Allegheny. \$1,100. (O) Mrs. B. Emmitt, on premises. (C) Joseph Thuman & Co., 92 Collom street. Brick addition, rear 1 story, 15x10 feet, slag roof, front bulk and galvanized bay window.

Dwelling, 1404 North Thirteenth street, \$1,976. (O) H. W. Earbourn, on premises. (C) D. Wittenberg, Holmes, Delaware County, Pa. Brown stone new front.

Sales Rooms, 600-62 North Broad street. \$5,500. (O) S. Corson, 238 North Broad street. (C) Freund Const Co., Bulletin Building. Brick, 1 story rear addition, 40x58 feet, Reinforced concrete roof.

Dwelling, 2132 Green street, \$550. (O) F. S. Harwood, on premises. (C) Chas. Zebley, Pine and Junice streets. Brick, 1 story, 4x15 feet, side additions.

Store and Dwelling, Sixtieth and Pine streets, \$1,400. (O) Louis Jacobson, 4027 Market street. (C) Max Shaffer, 602 Hoffman street. Interior alterations.

Dwelling, 6161 Chestnut street, \$800. (O) C. Ridter, on premises. (C) Thos. Montgomery, 127 South Salford street. Brick, 2 story addition, 16x15 feet, slag roof.

Dwelling, Prospect avenue and New street, Chestnut Hill, \$8,000. (O) Dr. W. W. Jeffreys, 100 North Walnut lane. (C) Stokes Bros., 6723 Musgrave street. Brick, 2 story, additions, 26x21 feet.

Auto Supplies, 713-15 North Broad street, \$900. (O) Beroden Rubber Co., on premises. (C) E. E. Hollenback, 1804 Brandywine street. New floor between first and second floors, 120 square feet.

Ball Room Add. Carpenter and Emlin, \$40,000. (O) Auto Club of Germantown, on premises. (C) J. Sims Wilson, 1123 Brown street. Stone, 1 story, 64x109 feet, slag roof.

Storage, 2335-53 Sedgley avenue, \$7,000. (O) Tasty Baking Co., on premises. (C) Joseph F. Myers, Jr., 1237-39 Ridge avenue. Reinforced concrete, 3 stories, 60x79 feet, slag roof.

Dwelling, 711 Ellsworth street, \$350. (O) Leonardo De Cristophor, on premises. (C) Ios. Christopher, 1135 South Seventh street. Brick, new front.

Store Dwelling, 2538 Kensington avenue, \$900. (O) H. Kris, 1920 North Thirty-second street. (C) S. J. Bobb, 888 North Sixth street. Brick, new bulk front.

Dwelling, 826 Pierce street, \$575. (O) G. Daprocita, on premises. (C) Paul Vol-

low, 817 South Hutchinson street. Brick, 2 stories, 14x11 feet, addition

Garage, Upsal and Musgrove streets, \$1,500. (O and C), P. J. Kilcullen, 3709 Midvale. Brick, 1 story, 17x50 feet, tin roof.

Garage, Store and Dwelling, Sixteenth and Columbia avenue, \$5,500. (O), Max Rosening, on premises. (C) B. Bornstine, 1510 North Franklin. New bulk front, add. 7x18—9x17 feet.

Store and Dwelling, Fifth and Green streets, \$3,000. (O) Sam Stein, 1201 Chestnut street. (C) J. E. Spitz. Bulk windows, fire damage.

Dwelling, Main street, cotton, \$500. (O) G. J. Bowker, on premises. (C) W. E. Keller, 2015 West Ontario street. Brick, 1 story, 11x15 feet.

Dwelling, Fifty-eighth and Hoffman avenue, \$800. (O and C) Henry W. Baxter, on premises. Brick, 2 stories, rear 16x14 feet.

Shop, 1824 South Tenth street, \$500. (O and C) J. Hoppert, 1824 South Tenth street. Brick, 2 stories, 15x25 feet, slag roof.

Store and Dwelling, Twentieth and York streets, \$600. (O) W. P. Dougherty, on premises. (C) A. R. Raff Co., 1635 Thompson street. New bulk windows.

Store, 22 West Cheltenham avenue, \$2,000. (O) F. Gruburger, 18 West Cheltenham avenue. (C) I. Dunkelberger, 71 Herman street. Interior alterations, new floor.

Dwelling, 165 Queen street, \$395. (O) Morehead, on premises. (C) Edw. Clifford, 107 Queen street. Brick, 1 story, 14x12 feet, tin roof.

Baggage Room, Broad Street Station, \$4,235. (O) P. R. R. Broad Street Station. (C) Nagler Bros., 1003 Wood street. New corrugated iron roof.

Dwelling, 1836 Kinsey street, \$600. (O) E. Wishterman, on premises. (C) John Frothingham, 3367 Frankford avenue. Brick, 2 story addition, 4x10 feet, tin roof.

Dwelling, 1410 South Bouvier street, street. (C) John J. Muldoon, 153 Porter street. (C) John J. Muldoon, 1538 Porter street. Brick, 2 story addition, 13x10 feet, slag roof.

Store and Dwelling (150 South Sixtieth st., \$1,500. Israel Kolker (O), on premises. Barkan Bros. (O), 926 Snyder avenue. Brick, 1 story addition, 12x15 feet, slag roof.

Factory, 2005 E. Arizona street, \$300. George Caldwell (O), 1923 E. Dauphin street. Thos. Matthews & Son (O), 2336 W. Hancock street. Brick, second story addition, 15x48 feet, slag roof.

Freight Station, Market and Thirtieth sts., \$13,670. Penna. Railroad (O), Broad Street Station. A. L. Carhart (C), Hale Building. Steel, 1 story addition, 141x67 feet.

Dwelling, 2118 Tioga street, \$800. A. McCray (O), on premises. J. Y. Soux (C), 3731 York road. Brick, 10x14 feet, piers to support porch.

Garage, 2119 Eastguth street, \$2,000. A. McCray (O), 2118 Tioga street. J. Y. Soux (C), 3731 York road. Brick, 20x30 feet, 1 story, slag roof.

Store and Dwelling, 1304 Tioga street, \$315. John Seib (O), on premises. J. Y. Sox (C), 3731 York road. Build new flush.

Factory, 482 North Fifth street, \$750. Chas. Datz (O), on premises. John A. Codori (O), 1235 Arch street. Fire repair.

Dwelling, 6201 Washington avenue, \$500. Irwin Michelson (O and C), on premises. Brick, 1 story, 14x10 feet, meal roof.

Factory, Sixth and Columbia avenue, \$2,000. Henry H. Sheip Co. (O), on premises. Bar-

clay White Co. (C), 1713 Sansom street. Iron stairways.

Patrol House, 58 E. Haines street, \$5,000. Fire Insurance Patrol (O), 333 Walnut street. Frank Y. English (C), 1608 North Carlisle st. Brick, 1 story addition, 38x50 feet.

Dwelling, 1340 Columbia avenue, \$500. John L. Bippert (O), on premises. Elfreth & Co. (C), 1633 Ranstead street. New flush bulk.

Store, 515 Market street, \$2,200. W. Whitehill (O), on premises. Conneen Cont. Co. (C), 1737 Filbert street. Elevator shaft.

Dwelling, 1740 Fillmore street, \$900. Chas. H. Gaskill (O), 4513 Hedge street, Frankfort. Chas. Dear & Son (C), 4905 Old York road. Raise building 1 foot, new cellar, hot water heating.

Dwelling, 2131 North Twenty-first street, \$2,500. Rev. J. G. Wilson (O), 3454 North Twenty-third street. H. Jensen (C), 3846 Quiedly street. Brick, 1 story addition, 12x11 feet.

Store and Dwelling, 1410 South Fifty-second street, \$600. Wm. E. Burk (O), Broad and Wharton, Atlantic City. Sutton & Stephenson (C), 1317-19 Washington avenue. Fire repairs.

Store and Dwelling, 1026 South Ninth st., \$440. Donato Colantonio (O), on premises. Mike Cacchio (C), 1807 South Ninth street. Brick, 1 story, 13x8 feet, tin roof.

Stable and Garage, Hutton and Parrish sts., \$3,800. Fred G. Kreitzer (O), 4237 Lancaster avenue. W. E. Biscoe (C), 3950 Ludlow st. Brick, 1 story addition, 3½x13 feet.

Store and Dwelling, 1216 South st., \$1,200. Fink Bros. (O), on premises. Wm. Bagupolsk (C), 410 Wolf street. Brick, 1 story, 4x19 feet, tin roof.

Garage, 1022-24 Washington avenue, \$900. Frank Mathers (O), Tenth and Washington avenue. Wm. Hallowell (C), 2113 South Lee street. Brick, 1 story, 30x28 feet, slag roofing.

Shed, Girard avenue and Fletcher street, \$1,000. W. H. Lear (O), 979 North Front street. Matthew Morrison & Son (C), 2322 North Howard street. Lumber sheds.

Dwelling, 1230 North Fifty-second street, \$2,900. A. J. Dyer (O), on premises. W. A. Patterson (C), 5333 Vine street. Brick, 1 story, 16x10 feet, new flush bulk.

Factory, Stiles and Wakeling streets, \$3,000. Barrett Co. (O), Bermuda and Margrietta street. C. Raymond Raff Co. (C), 1635 Thompson street. Brick, one bay, 13x65 feet, wood roof.

Work Shop, 240 Fifty-fifth street, \$2,900. Isaac Massey (O), Fifty-sixth and Arch sts. J. D. Fisher (C), 5424 Thompson street. Brick, 25x80 feet, 1 story, slag roof.

Store and Hall, Marshall and Girard avenue, \$2,300. Wm. M. Haretof (O), 816-18 Girard avenue. Sam Schultz Co. (C), 3030 North Sixth street. Brick, new bulk windows.

Garages (2), 5420-18 Thompson street, \$4,000. J. D. Fisher (O and C), 5424 Thompson street. Brick, 60x16 feet, 32x17 feet, 1 story, slag roof.

Garage, 4818 North Broad street, \$750. Jacob Young (O), on premises. Fred Weiss (C), 4825 North Marvine street. Brick, 1 story, 17x22 feet.

Garage, Margaret and Bermuda streets, \$2,000. Barrett & oC. (O and C), on premises. Brick, 1 story, 39x49 feet, steel sash, Barrett roofing.

Plant Addition, 3333 Ludlow street, \$15,000. Supplee Milk Co. (O), Eleventh and Jefferson street. John N. Gill (C), Otis Building. Brick, 3 stories, additions, 50x52 feet.

Dwelling, 6017-19 McCallum street, \$1,500. Eli Leach (O), on premises. Christian Dear's

Son (C), 219 Northeast boulevard. Move house back 20 feet.

Dwelling, York road and Ook lane, \$4,500. Reuben Windisch (O), on premises. Christian Dear's Son (C), 219 Northeast boulevard. Move house 48 feet.

Garage, 229 Church lane, \$500. M. W. Jone (O), on premises. McClintock & Weaver, (C), 24 W. Phil Ellenastreet. Brick, 1 story, 12x22 feet slag roof.

Garage, 6036 Lombard street, \$750. John Lomas (O), on premises. Geo. Forsyth (C), 6138 Vine street. Brick, 1 story, 20x24 feet.

Garage, Cresson and Scotts lane, \$1,100. John Raum (O), on premises. Robinson & Philips (C), 4611 Ella street. Brick, 1 story, 25x32 feet, cement floor, slag roof.

Warehouse, 1126 Callowhill street, \$800. Caesar I. Pratt (O), Twelfth above Diamond street. S. B. Forder (C), 3826 Germantown avenue. Brick, 1 story, 18x40 feet, slag roof.

Store and Dwelling, 242 North Sixteenth street, \$500. Geo. E. Braker (O), on premises. Columbia Cabinet Co. (C), 226 North Fifteenth street. New flush bulk.

Forge Shop, 2300 E. Tioga street, \$2,000. S. A. Ashman & Son Co. (O), on premises. Robt. B. Lederle (C), 830 Witherspoon Building. Iron frame, 20x48 feet.

Office and Dwelling, Cumberland and Amber streets, \$575. M. Zimmerman (O), on premises. Fred Nackinlut (C), 2416 Frankford avenue. Steam heating.

Factory, 660 North Broad street, \$1,400. National Rubber Co. (O), on premises. Electric sign.

Factory, Front and Erie avenue, \$50,000. Hess Bright Mfg. Co. (O), on premises. Harrison C. Rea Co. (C), 1027 Wood street. Brick, 2 stories, 38x80 feet, iron, 1 story, 80x180 feet.

Store and Dwelling, 1802 Morris street, \$300. Guide Zappasode (O), on premises. Vincent Yampiér (C), 1218 South Twelfth street. New flush bulk.

Storage, 1231 Bainbridge street, \$2,750. Hernon B. Feldon (O), 1725 North Fifty-first street. A. P. Luckee (C), 1727 North Fifty-first street. Brick, 3 stories, 20x60 feet, slag roof.

Office Building, 836 Swanson street, \$2,000. Hagy Waste Works (O), on premises. Barclay White Co. (C), 1713 Sansom street. Brick, 2 stories, 26x28 feet, metal lath.

Office and Dwelling, 441 E. Cheltenham avenue, \$2,000. Jas. Seatchard (O), 443 E. Cheltenham avenue. George Sorber & Sons (C), 18 Harvey street. Brick, 2 stories, 23x30 feet.

Garage, 3924 Walnut street, \$440. George Miller (O), on premises. Eugene Tourison (C), 1001 Chestnut street. Brick, 2 stories (second story porch), 13x8 feet, slag roof.

Store and Dwelling, 2027 South Seventh street, \$1,535. Annie Singer (O), on premises. N. Litman (C), 2030 South Fifth street. Flush bulk, interior alterations.

Factory, 38 South Third street, \$600. M. H. Bickey (O), Chester, Pa. Thomas Juan (C), Chester, Pa. New Elevator shafts, 4x6 feet.

Garage, Walnut lane, east of Baystore st., \$5,000. Wm. L. Blake (O), 404 E. High st. Jas. H. Walter (C), 168 E. Walnut lane. Brick, 1 story, 110x42 feet, slag roof, cement floors.

Garage, Race street, west of Sixty-fifth st., \$400. Pompey Ansell (O and C), 6413 Race street. Brick, 1 story, 20x30 feet, slag roof.

Store and Dwelling, 1110 Christian street, \$340. Michele Roccia (O), on premises. Cerasoli Scuri (C), 1231 Christian street. New flush bulk.

Store and Dwelling, 3016 Wharton street,

\$750. M. Marteno (O and C), on premises. Brick repairs.

Daniel Duffy (O), on premises. John Mortmer (C), 3024 E street. Brick, 2 stores addton, 14x14 feet.

Dwelling, 1811 South Broad street, \$350. James S. Aber (O and C), on premises. Brick, 1 story addton, 12x14 feet, slag roof.

Garage, 1812 Watts street, \$400. James Aber (O and C), 1811 South Broad street. Brick, 1 story, 18x15 feet, slag roof.

Dwelling and Store, 2215 South Fifth street, \$600. Louis Friedman (O), on premises. Philip Savar (C), 708 Snyder avenue. Brick, 2 stories, front.

Stores, 2350-52-54 North Front street, \$2,000. Nathan Marks and Jacob Kramer (O), 2207 North Holbard street. Sobel & Lebleman (C). Fire repair.

Store, 2306 North Front street, \$2,000. N. Reisman (O), on premises. Harry Rust (C), 19 South Eighth street. Fire repair.

Store, 4028-30 Lancaster avenue, \$1,000. P. T. Wallahan Son (O), on premises. Harry Rust (C), 19 South Eighteenth street. Bulk fronts.

Store and Dwelling, Ella and Clearfield st., \$950. Catherine McGillin (O), 1312 Duiry street. John Conner (C), Laurel Springs, N. J. Brick, 1 story additions, 20x25 feet, slag roof.

Poolroom, 357 E. Rittenhouse street, \$800. John Lorenzo (O), 305 E. Haines street. Geo. Fossell (C), 5606 Utah street. Brick, 2 stories, 16x45 feet, slag roof.

Store and Dwelling, 5534 North Fifth street, \$1,200. Edwin N. Johnson (O), 6327 Ross street. A. Wright (C), Front and York sts. Brick, 1 story addition, 16x11 feet.

Dwelling, 1945 Dennie street, \$600. Ralph Sevice (O), on premises. Antonio Ssestofolo (C), on premises. Brick, 2 stories, rear additions, 13x12 feet, slag roofing.

Dwelling, Longshoe and Vandyke streets, \$1,250. Emma Smithwaite (O), 3520 Longshoe street. Chas. A. Collier (C), 4213 Paul street. Brick, 1 story front addition, 6x15 feet, tin roof.

Dwelling, 509 South Forty-first street, \$500. J. Pemberton Ellis (O), 323 Walnut street. Frank Kaiser (C), 1522 South Sixth street. Brick, 2 stories, rear, 15x17 feet, slag roof.

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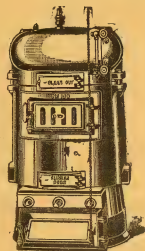
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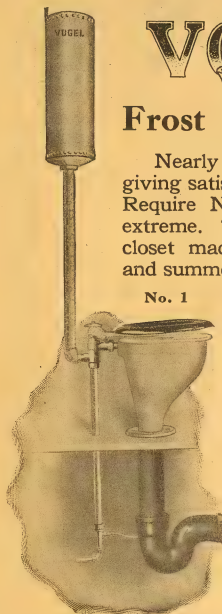
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	4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	
3-13-075	119	86	63	45	32	22										3 Inches
3-13-075	178	130	96	71	51	36	25									4 Inches
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3-13-125	323	245	189	147	116	91	72	56	43	24						4 Inches
3-9-15	395	302	235	185	148	119	95	77	61	38	21					4 Inches
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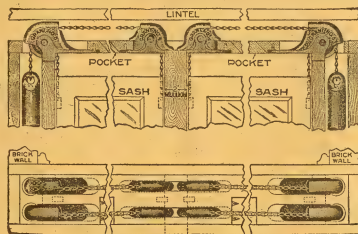
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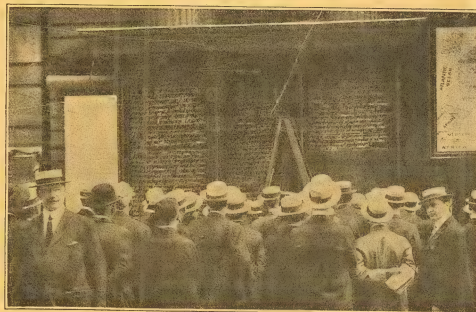


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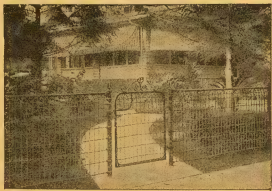
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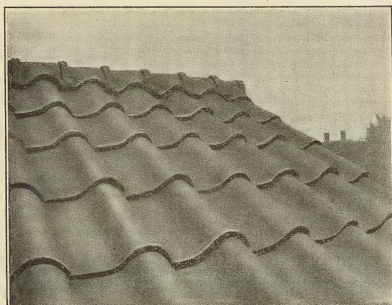


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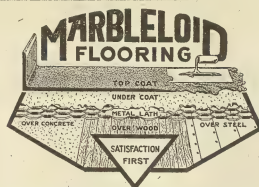
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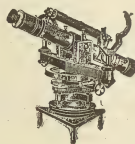
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 16

PHILADELPHIA
April 18, 1917



As The Editor Sees It



ON Chestnut street above Tenth, on the south side of the street, the Philadelphia Electric Company has in process of erection an addition to its present building.

Chestnut street is a particularly busy shopping center at this point and under the old, slovenly processes of building erection as it used to be carried on would present an eyesore of clutter, disorder, mud and confusion during the period necessary to complete a structure such as Philadelphia Electric proposes to build.

How far we have progressed, in this respect, from the conditions that once obtained, a casual glance, in passing, at the site in question will reveal to those interested.

A neat gate shuts off the public view from the excavation and foundation work going on behind it. The sidewalk is built over with an attractive shed designed to carry material awaiting use and to protect passers-by from possible injury. This shed is pleasing in design, painted in agreeable shades of brown and buff and bears on the side fronting Chestnut street the name of the company. Altogether, it is one of the most effective examples of consideration for the public and for the interests of adjoining shops, that we have noted in many years. It is not only highly creditable to the Philadelphia Electric Company, but should serve as a model worth adopting, among builders generally.

It is brilliantly lighted at night and reduces, to a degree altogether noteworthy, the disagreeable aspect normally incident to building activity in the city's center.

* * *

OF a piece with this is the new automobile oil supply station erected by the Atlantic Refining Company at the intersection of Broad street

and the Northeast Boulevard. In place of setting up, as would have been the case just a few years back, a hideous, staring shack designed to meet the commercial side only of the problem in hand, the Atlantic Company has gone to the expense of placing at this point on the city's beautiful boulevard a building in every sense adapted to key with its attractive surroundings. Instances such as these go far to prove that, despite the spirit of gloomy prophecy in which we are moved to indulge, at times, regarding the hopelessness of the popular taste there is an undercurrent ceaselessly at work for better things.

It cannot be regarded as other than distinctly encouraging that great service corporations such as the Philadelphia Electric and the Atlantic Refining Company should exhibit, spontaneously, this consideration for the purely aesthetic point of view. It means, if it means anything, that the teachings of those who preach the doctrine of art for art's sake is not wholly lost upon the great lay public and that the principle that a structure should observe certain rules of harmony in its relation to adjoining structures is slowly forcing its way to a more or less general recognition.

* * *

ON another page of this number of THE GUIDE we are printing the text, in full, of Senate Bill No. 744, providing for the registration and licensing of architects in the State of Pennsylvania. This bill, introduced by Senator Edwin H. Vare, provides for a State Board of Examiners, and other reforms, aimed at bringing the trained architect into the measure of recognition that is his due. This will be the first printing of the bill, in full, in any newspaper or magazine since its introduction.

WILBUR E. MALLALIEU, general manager of the National Board of Fire Underwriters, has just issued in pamphlet form, with amplifications, an article prepared by him for the *New York Tribune*, dealing with the prevalence of fires, causing heavy loss, due to clearly preventable causes.

This article shows, among other things, that of all the fires, 500,000 or more in number, which happen annually in the United States, nearly forty per cent. are traceable to causes which issue from indifference to conditions plainly preventable. The pamphlet is one that should be of interest to every architect, builder, building owner and investor in the United States. Copies of it may be had on request by those who address a line to Mr. Mallalieu at the headquarters of the National Board of Fire Underwriters in New York City.

It isn't enough to just advertise. There is competition these days in advertising, as in other things. You must make your advertising attractive. You must make it say something,—something definite, original and convincing. If you lack faith in your own ability to do this, let us do it for you. Give us the facts. Talk to us just as you would to a prospective buyer. That is the kind of talk that makes profitable advertising. We'll look after the verbal frills. That's our business.

There's one variety of advertiser who gets our Angora. This is the chap who can't afford a large space and doesn't advertise, as a regular thing, because a small space "isn't seen." Some of the biggest advertisers we have started out with small space. Ask them whether the small space is seen. If advertisers had to wait until their businesses developed to full page stature before advertising, there'd be mighty few advertisers. The big man becomes big by growth. And growth starts with the seed.

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**BLUE
PRINTS**

EDITORIAL NOTES

The market for building materials and supplies has responded to the increasing activity. Prices are generally holding steadily, with a tendency toward further advances. Practically all of the metal products continue to advance in price, and increases are looked for in Portland cement and other masons' materials. The excellent weather of the past two weeks has had much to do with the progress of the building business. There is every prospect now of a continuation of these conditions, which will no doubt daily increase the demand for structural materials. There seems now to be no cause for apprehension on the part of the manufacturers and dealers in structural commodities for anything other than a flourishing building season.

Reports from Williamsport, Pa., state that many families are having considerable trouble in obtaining suitable homes, and that in a number of instances householders have found it necessary to "double up." The idea of two families living in the same house has created a sensation in Williamsport.

Walter H. Simon, Box 675, El Dorado, Kansas, has charge of the architectural work for the Sharp Brothers Construction Company, with a number of projects throughout Kansas, and desires samples and catalogues from building material manufacturers.

Since New York City cannot find any cash buyers for its unused real estate, it has evidently adopted the policy of trading them for property it can use. The passing of city properties which have outlived their usefulness into private ownerships has a double value. In the first place, the sale automatically places them back on the assessment rolls as liable for taxation, and, in the second place, makes them available for reimprovement, directly benefiting the entire neighborhood.

William D. Lewis has been appointed manager of the Chicago branch of the Yale & Towne Manufacturing Company to succeed Walter A. Lockwood, whose resignation takes effect April 1. Mr. Lewis has been associated with the company for thirteen years, first in the factory, then in the New York offices, and for the past five years as assistant to Mr. Lockwood in the Chicago branch.

"No building is safe, from the viewpoint of hazard to life in case of fire, which cannot be emptied in three minutes," reads a statement recently published by a New York firm of engineers.

G. R. Stearns and Horace W. Castor, architects and engineers, have dissolved their partnership by mutual consent. Mr. Castor an-

nounces that he will continue to engage in the practice of architecture, in the Stephen Girard Building, Philadelphia, Pa.

The National Pipe and Supplies Association will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

The New Jersey Terra Cotta Company, 149 Broadway, has obtained the contract for the architectural terra cotta for the addition to the office building at the northwest corner of William street and Maiden lane, New York City. The Edward Corning Company has the general contract.

The American Hardware Manufacturers' Association and the Southern Hardware Jobbers' Association will hold their convention at the Rice Hotel, Houston, Texas, April 17-20. P. D. Mitchell, 233 Broadway, New York, is secretary-treasurer.

The National Machine Tool Builders' Association will hold its spring meeting at the Hotel Sinton, Cincinnati, Ohio, May 21-22.

The New Jersey State Association of Master Plumbers will hold its annual convention at Elks Hall, Jersey City, N. J., May 15-17.

The American Society for Testing Materials will hold its twentieth annual meeting at Atlantic City, at the Hotel Traymore, June 26 to 30, inclusive.

The National Fire Protection Association will hold its annual meeting in Washington, D. C., May 8-10, 1917.

Harold F. Secor has opened an office for the practice of architecture at York Road and Green Lane, Philadelphia, where he will be pleased to receive catalogues, samples, etc.

Owners of property, including State Senator James P. McNichol and former Mayor Rudolph Blankenburg, that has been acquired by the city, through condemnation proceedings, for the extension of Logan Square westward, will be paid an aggregate of \$812,625, by terms of a report filed by the Board of View in Common Pleas Court, No. 3. At the hearings conducted by the Board to fix the amount of awards, the owners asked a total of \$1,024,323, while the city's experts valued all the properties at \$790,925.

The National Board of Fire Underwriters estimates that of the \$153,000,000 of fire losses in the country in 1915, \$32,700,000, or 21.4 per cent., resulted from strictly preventable causes, and another 37.9 per cent. from causes partly preventable.

Work on constructing the new Free Library building, at Nineteenth street and the Parkway, probably will begin next week, Director of Public Works Datesman announced, following the action of Mayor Smith in executing the contracts, which total \$2,664,697. The contract for the building proper, \$2,219,000, to the George A. Fuller Construction Company, is based on having the stone used cut outside the city. Judge Patterson, Common Pleas Court, No. 1, recently dismissed an injunction suit instituted by John F. Flinn, who sought to have the stone cut in this city, which would have cost \$155,000 additional. "Ever since plans were made for the building, and contractors were asked to bid on the work, many obstacles have arisen," Mr. Datesman said. "An appeal taken from Judge Patterson's decision is now pending in the Supreme Court. The anxiety of Mayor Smith to get the great improvement under way led him to take the chance of a second victory in the Supreme Court and sign the contract."

BOOKS RECEIVED.

"Estimating Building Costs," by William Arthur, published by the David Williams Company, New York, is an admirable little handbook for the use of building tradesmen, contractors, material men and technical students interested in getting at the right principle of figuring construction costs in all branches of the building trades. It is a plain, straightforward, easily-grasped, and eminently practical guide to the man who is called upon to do estimating, whether for himself or others. The author has had years of practical experience, knows his subject and has avoided the technical so that his little volume bids fair to supply a real want. It is pocket size, large, clear type, arranged so as to make ready reference to it a matter of ease, and is strongly bound. Altogether an excellent contribution to a live subject.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scripper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And therefore is
A goodly thing to try.

—Ex.

THE BILL TO LICENSE ARCHITECTS

Complete Text of Senate Bill No. 744 to Provide for Examination, Registration, and Licensing of Pennsylvania Architects.

The complete text of Senator Vare's bill is here given:

AN ACT

To regulate the practice of architecture as a profession in the Commonwealth of Pennsylvania by providing for the granting of licenses to practice architecture to and the examination and registration of architects by a State Board of Examiners, defining the powers and duties of said Board of Examiners and providing penalties for the violation of this act.

Section 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same: That within sixty days after the approval of this act the Governor shall appoint a State Board of Examiners of Architects, which board shall consist of seven members and be composed as follows:

One member thereof shall be a member of the faculty of the School of Architecture of the University of Pennsylvania, another a member of the faculty of the Department of Architecture Carnegie Institute of Technology, Pittsburgh, Pennsylvania, another a member of the faculty of the School of Engineering teaching Architectural Engineering of the Pennsylvania State College, and the remaining four members shall be architects residing in the State of Pennsylvania who have been in continuous practice of architecture for a period of at least ten years, and all the members of said board shall be at the time of their appointment members of the American Institute of Architects.

In making the first appointments under this act the Governor shall appoint two of the said members of said board to hold office for a period of two years, two to hold office for a period of four years and the remaining three to hold office for a period of six years from the date of appointment, and thereafter all appointments shall be for a period of six years. In case a successor is not appointed at the expiration of the term of any member, such member shall hold office until his successor has been duly appointed and has qualified. In the event of any vacancy occurring in the membership of said board in any manner other than by expiration of term, the Governor shall fill said vacancy by an appointment for the unexpired term. The members of said board shall before entering upon the discharge of their duties subscribe to and file with the Secretary of the Commonwealth the constitutional oath of office.

Section 2. The word "Architect" as used in this act means any person engaged solely in the preparation of drawings and specifica-

tions for and in the supervision of the erection, enlargement or alteration of any building or buildings structure or structures for the use of and to be constructed by any other person or persons, association, copartnership or corporation, but nothing contained in this act shall be construed to prevent any person, firm, association or corporation from making drawings or specifications for or supervising the erection, enlargement or alteration of any building or structure for his or its own use or occupancy.

Section 3. The said State Board of Examiners of Architects shall meet for organization within sixty days after its appointment by the Governor and shall elect from its membership a President, a Secretary, and a Treasurer.

The said board shall adopt all necessary rules, regulations and by-laws not inconsistent with this act and the constitution and laws of this State or of the United States to govern its times and places of meeting for organization and reorganization and the holding of examinations, the length of the terms of its officers and all other matters requisite to the exercise of its powers, the performance of its duties and the transaction of its business under the provisions of this act.

The said board shall adopt a seal containing the words "Pennsylvania State Board of Examiners of Architect, organized _____, one thousand nine hundred and seventeen," of which seal the Secretary shall have the care and custody.

Section 4. The Secretary of said board shall keep a true record of all proceedings of the board and may employ such clerical assistance as the board may deem necessary.

The said board shall be charged with the duty of enforcing the provisions of this act and may incur such expenses as shall be necessary, all of which expenses shall be paid out of the funds and in the manner hereinafter mentioned and provided, and said board shall file with the Governor annually a full report of its operations.

Section 5. All fees provided for by this act shall be paid to and receipted for by the Treasurer of said board, to be by him held as a fund for the use of said State Board of Architects. and to be paid out by him only upon the written order or warrant of the President and Secretary, of said board. Said Treasurer shall give a bond to the Commonwealth for the use of said board in such amount and with such conditions as said board may prescribe.

All expenditures of the said board shall be paid from the funds received under the provisions of this act and said expenditures shall in no case be paid from the State Treasury, but it shall be the duty of the Board of Com-

missioners of Public Grounds and Buildings to provide and furnish a suitable office in the city of Harrisburg for the transaction of the business of the said Board of Examiners.

The said Treasurer may retain in his custody at any or all times such sums as may be necessary to defray the ordinary expenditures of the board, but all moneys in his hands in excess of the sum of two thousand dollars on the first day of December in each year shall be paid by the Treasurer of the said board into the State Treasury.

No member or officer or officers of the Board of Examiners shall be entitled to any compensation for his services except the Secretary and Treasurer, and the salaries of these officers shall not exceed five hundred and two hundred and fifty dollars per annum respectively. The members of the board, however, shall be reimbursed out of the funds of the board for traveling, hotel, clerical and other requisite expenses incurred in the performance of their duties under this act.

Section 6. Four members of the board shall constitute a quorum and the regular and special meetings of the board shall be called and held in the manner and at the times and places prescribed in the by-laws, but at least two meetings shall be held each year for the purpose of examining applicants for licenses to practice architecture.

Section 7. From and after the approval of this act any person desiring to enter upon the practice of architecture in this State may deliver to the Secretary of the State Board of Examiners of Architects upon the payment of a fee of ten dollars to the Treasurer thereof a written application for a license to practice architecture. Such applicant shall produce proof satisfactory to said board that the applicant is more than twenty-five years of age, of good moral character and has obtained a

BUILDERS' GUIDE

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Irving Dillon.....Editor

preliminary education equivalent to the course of study in a first class high school and has had at least seven years continuous practical experience in the office or offices of a reputable architect or architects, including the supervision of works.

Upon the making of such proof of eligibility for examination the said board, if satisfied with the same, shall admit such applicant to an examination in such technical and professional courses as may be established by said State Board of Examiners of Architects.

Said examination shall be conducted by the full board or a committee of at least two members of the same duly delegated by said board.

If such applicant shall successfully pass such examination the said board shall issue to such applicant under its seal a license to practice architecture in the State of Pennsylvania, which said license shall be signed by the President and Secretary of the board and shall be in such form as may be prescribed by said board, but the same shall contain the name of the successful applicant, his or her place of business and the words "Admitted to practice architecture in the State of Pennsylvania the _____ day of _____, one nine one."

Section 8. The said office of said State Board of Examiners of Architects shall be open during business hours each day of the year, Sundays and holidays excepted, in which office the Secretary of the board shall keep an official register of all licenses to practice architecture issued under the provisions of this act and of the renewals of the same as hereinafter provided for, which register shall be properly indexed and shall be open for public inspection and information.

Section 9. Any person residing or having a place of business in this State who at the date of the approval of this act was engaged in the practice of architecture under the title of architect may secure a license to continue to practice architecture without undergoing the above mentioned examination, provided that such person shall within six months after the date of the approval of this act file with the Secretary of said board a written application for a license to practice architecture, accompanied by a fee of ten dollars, and shall submit proof satisfactory to said board that the applicant is not less than twenty-five years of age, of good moral character and has been continuously engaged solely in the practice of architecture individually or as a member of a firm of architects in the State of Pennsylvania for a period of two years preceding the approval of this act.

Section 10. The said State Board of Examiners of Architects may also issue licenses to practice architecture without examination to any applicant therefor making satisfactory proof that the applicant possesses the following qualifications:

(a) Is the holder of a diploma of graduation or satisfactory certificate from a recognized architectural college or school and has had at least five years continuous practical experience in the office or offices of a reputable

architect or architects, including supervision of works, which said period of practical experience shall be considered as beginning only at the completion of the course of study leading to said diploma or certificate; or

(b) Is the holder of a license or certificate of authority to practice architecture issued by another State or country where the standard of qualifications for obtaining such license or certificate of authority is not lower than the standard fixed by the Pennsylvania State Board of Examiners of Architects, and which State of country admits to practice within its jurisdiction the holder of licenses duly issued by the State of Pennsylvania under this act.

Section 11. Each original license to practice architecture issued under the provisions of this act shall authorize the holder thereof to practice architecture throughout this State from the date of the issuance of said license until the last day of January in the year next succeeding the date upon which the said license was issued, unless said license shall be revoked for cause as hereinafter provided.

Section 12. Each architect licensed to practice architecture under the provisions of this act shall annually in the month of January during the time such holder shall desire to continue the practice of architecture in this State pay to the Treasurer of the said State Board of Examiners of Architects a fee of ten dollars, whereupon the said board shall issue to such architect in such form as the said board may provide a renewal of said license for the term of one year, and such renewal of license shall be duly registered by the Secretary of said board in the official register of the board hereinbefore provided for.

In the event that any holder of a license to practice architecture shall neglect or fail to have said license renewed in the manner herein provided during the month of January in each and every year, the right of such architect to practice architecture in this State shall cease and determine on the last day of the month of January during which said license or certificate should have been renewed under the provisions of this act, and it shall be the duty of the Secretary of the said State Board of Examiners of Architects to give notice in writing of the expiration of such license to the holder thereof and make a proper entry on said register showing the expiration of such license.

Any holder of a license to practice architecture which has expired under the provisions of this act may obtain a renewal of such license at any time within one year from the date of its expiration upon paying to the Treasurer of the State Board of Examiners of Architects a fee of fifteen dollars.

Section 13. The said State Board of Examiners of Architects may by unanimous action revoke any license to practice architecture issued or renewed under the provisions of this act for gross incompetency or recklessness in the practice of his profession or for dishonest practice on the part of the holder thereof.

Any architect holding a license of said Board

of Examiners of Architects against whom any of the foregoing charges may be preferred shall be furnished by the said board with a copy of the charges and shall be entitled to a hearing before the said board at which witnesses may be examined respecting the guilt or innocence of the person accused.

In the event that said license is revoked by said board the Secretary shall make proper entry and registration of the fact of said revocation and shall give notice in writing of such revocation to the holder of said license.

At any time after the expiration of six months from the date of revocation of said license and upon the payment of all costs incurred by said board the person whose license has been revoked may make application to the said Board of Examiners of Architects for a new license, and the said board upon receiving evidence which in its opinion would warrant the granting of a new license may in its discretion issue a new license upon the payment of a fee of ten dollars.

Section 14. The Secretary of the said Board of Examiners shall provide each holder of a license to practice architecture with a seal, the impression of which or of any convenient facsimile imprint thereof shall appear on all drawings and other instruments of architectural service that may thereafter be issued by the holder thereof.

Said seal shall contain the name of the person to whom issued, the word "Architect," his or her place of business and the number of his or her certificate, together with the encircling words "Admitted to Practice in the State of Pennsylvania." Said State Board of Examiners shall upon request of license holders practicing as firms provide a like form of seal suitable for firm use in place of said individual seals; provided, however, that the certificate numbers of the persons comprising each firm appear on the seal issued for such use. All seals shall remain the property of said board and be returned to the Secretary within thirty days of the expiration of the certificate under which their use is authorized. The cost of their issuance and use shall be fixed by the said board.

Section 15. On and after January 1st, one thousand nine hundred and eighteen it shall be unlawful for any person in the State of Pennsylvania to enter upon or continue the practice of architecture in the State of Pennsylvania or to hold himself or herself forth as a practitioner in architecture or to assume the title "Architect" or any other word or any letters or figures indicating or intended to imply that the person using the same is an architect unless he or she has complied with the provisions of this act and is the holder of a license to practice architecture issued or renewed under the provisions of this act.

Section 16. Any person violating any of the provisions of this act shall be guilty of a misdemeanor, and upon conviction thereof shall be sentenced for the first offense to pay a fine of not less than fifty dollars nor more than one hundred dollars, and for a second

(Continued on page 266.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, 1608 North Fifty-second street, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owner, James Egnal, Sixty-first and Regent streets, Philadelphia. Brick, 4 stories, 48x80 feet, slag roof, hot water heating, electric lighting, hardwood floors, tile work. Plans completed. Architect ready for sub-bids.

Store (alt.), 1700 North Broad street, Philadelphia. Architect, L. E. Denslow, 44 West Eighteenth street, New York City. Owners, United Cigar Store Co., 62 North Eighth st., Philadelphia. Brick and concrete work (electric lighting and store fixtures reserved), tile floors, tile and marble work, metal lath, metal ceilings. Architect taking bids, due April 18th. F. L. Hoover & Sons, 1023 Cherry st.; Freund Const. Co., Bulletin Building; Edw. Fay & Son, 2 South Mole street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Residence (alt. and add.), Seminole avenue, Chestnut Hill. Architect, John Graham, Jr., Real Estate Trust Building, Philadelphia. Owner, J. Leeds Barroll, 7207 Charlton avenue, Chestnut Hill. Stone, 2 stories, addition 40x20 feet, shingle roof (hot water heating, plumbing, electric work and hardware reserved), hardwood floors, tile work. Architect taking bids, due April 20th. The following are figuring: Owen Fogarty, 1918 Cherry street; J. Sims Wilson Co., 1125 Brown street; Wolverton & Collins, 28 E. Willow Grove avenue, and John Duncan, 920 Walnut street, are figuring.

Garage, 1310-12 North Fourth street, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Harris Brody, 1322 North Fourth street, Philadelphia. Brick and steel, 2 stories, 40x180 feet, slag roof, electric lighting, steam heating, electric elevator, iron skylights, ventilators, wire galss. Architect taking bids, due as soon as possible. Lam Building Co., 1001 Wood st., is figuring.

Church and Sunday School, Second and Clearfield streets, \$80,000. Architect, not selected. Owners, Puritan Presbyterian Church, Rev. Jas. G. Raymond, 2857 North Eighth street, Philadelphia. Stone and brick, 1 story, Competitive plans submitted. Architect not yet selected.

Club House, Oak Lane, Philadelphia. Architect, Wm. E. Groben, 6719 North Sixth st., Oak Lane, Philadelphia. Owners, Review Club of Oak Lane, Mrs. E. Clarence Miller, chairman building committee, Oak Lane, Philadelphia. Stone and stucco, 1 story and basement, 40x90 feet, slate roof, hot water heating, electric lighting, tile work, cement and pine floors. Plans completed. Architect will take bids in a few days.

Loft Building (add.), Eleventh and Wood streets, Philadelphia. Architect, private plans. Owner, Harrison C. Rea, 1027 Wood street, Philadelphia. Reinforced concrete and brick, 6 stories, 60x80 feet, slag roof, steam

heating, electric lighting, rolled steel sash, maple floors, (1) elevator. Owner ready for sub-bids.

Factory Building and Power House, Memphis and Tioga streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Green Box Co., on premises. Brick (slow burning), 2 stories and basement, 60x100 feet, and 1 story, 30x60 feet, slag roof, steam heating, electric lighting, cement and plank floors. Plans completed. Architect will take bids in a few days.

Pump House, Frankford Arsenal, Philadelphia. Architects, Irwin & Luckenback, Harrison Building, Philadelphia. Owners, U. S. Govt., Col. Geo. Montgomery, Frankford Arsenal. Concrete and steel, 1 story and basement, 65x22 feet and 62x10 feet (heating and lighting reserved), cement roof and floors, tile work, hollow metal sash, fire doors, roof ventilators, waterproofing. Owners taking bids, due April 20th. Ketcham and McQuade, 1029 Brown street; H. H. Wehmeyer, 1004 W. Lehigh avenue, and W. W. Anstine & Co., 1218 Filbert street, are figuring.

Primer and Detonator Dry House, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Govt., Col. Geo. Montgomery, Frankford Arsenal. Reinforced concrete, Gypsum block, 1 story, 50x24 feet, cement roof (heating, lighting and plumbing reserved), concrete and composition floors, waterproofing. Owners taking bids, due April 23rd. W. W. Anstine & Co., 1218 Filbert st.; P. J. Hurley, 1233 Cherry street; H. H. Wehmeyer, 1004 Lehigh avenue; Ketcham & McQuade, 1023 Brown street, are figuring.

Sub-Station, Hunting Park avenue, Fox and Marston streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Phila. Elec. Co., Tenth and Chestnut streets, Philadelphia. Reinforced concrete, brick and stone, 1 story, 145x134 feet, slag roof, cement floors, tile and marble work, hollow metal sash, rolled steel skylights, fire doors, metal lath, metal window guards, waterproofing (heating, electric work reserved). Architect taking bids, due April 20th. Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; H. E. Baton, Twelfth and Sansom streets; John R. Wiggins & Co., Otis Building, are figuring.

Grading and Paving Streets, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Dept. of Public Works, Geo. E. Datesman, director, City Hall. Consists of grading, paving and repairing streets with asphalt, vitrified, granite and wood blocks, and surfacing concrete and bituminous pavements. Owners taking bids, due April 20th at noon. Inquire at room 232 City Hall, Philadelphia.

Residence, Morris above Walnut Lane, Germantown. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Ralph

Gibbs, care of Louis J. Kolb, W. School House lane, Germantown. Stone and hollow tile, 2½ stories, 48x30 feet and 22x26 feet, tile roof (plumbing, vapor heating, electric work, tile work and composition floors reserved), hardwood floors, hollow tile, electric lighting. Architect taking bids, due April 18th. Milton W. Young, Overbrook, Pa.; Samuel Harting, 20 E. Johnson street; Wm. J. Gruhler & Co., 219 E. High street; W. John Stevens, Ins., Wyncote, Pa.; Kohl & Megargaree, 124 E. Gorgas avenue, and Pringle Berthwick, 8018 Germantown avenue, are figuring.

Store (alt.), 6026-28 Market street, Philadelphia. Architect, not selected. Owner, David Corn, 6026 Market street, Philadelphia. Brick and stone, 3 stories. Consists of changing two properties into one and interior alterations. Work contemplated.

Church, Fifty-ninth and Larchwood avenue, Philadelphia. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Fourth Reformed Presbyterian Church, Broad and Wharton streets, John A. Wilson, 5703 Spruce street, secretary, Board of Trustees. Stone, brick and terra cotta, 1 story and gallery, 70x67 feet, asphalt roof, pine floors, metal lath, steam heating, electric lighting, tile work, wire work. Owners taking bids, due April 23rd. Wills-Ludwick Co., 34 South Seventeenth street; F. B. Davis, 240 North Sixteenth street; E. E. Hollenback, Inc., 1804 Brandywine street; James Johnston, 1721 Ludlow street, and Geo. Bond, Sixty-sixth avenue and Thirteenth street, Oak Lane, Philadelphia, are figuring.

Department Store (add.), 2204-12 N. Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, James B. Gillies, 2200 North Broad street, Philadelphia. Brick and steel, 2 stories and basement, 71x89 feet and 17x72 feet, slag or composition roof, hardwood, pine and cement floors (plumbing, heating, electric work and (1) elevator reserved), tile and marble work, rolled steel sash, hollow metal skylights, fire doors, store fixtures, metal lath, roof ventilators. Architect taking bids, due April 23rd at noon. H. E. Baton, Twelfth and Sansom streets; McCloskey & Bahls, 1620 Thompson street; Smith-Hardican Co., 1606 Cherry street; Lam Building Co., 1001 Wood street; E. E. Hollenback, Inc., 1804 Brandywine street; B. Bornstein, 1510 N. Franklin street; Abel Bottoms & Sons Co., 3611 Walnut street; Freund Const. Co., Bulletin Building; Monaghan & Losse, Inc., 3016 Chestnut street; Stacy Reeves & Sons, 2011 Market street; Stewart Bros., 2526 North Orkney street; Wm. R. Dougherty, 1610 Sansom street, and Raith Const. Co., 304 Master street, are figuring.

Store (alt.), 136 North Tenth street, Philadelphia. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, H. S. Fulmer, on premises. Brick, new front, slag roof, pine floors, hollow metal skylights

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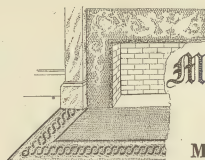


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(heating, plumbing and lighting reserved). Architects taking bids, due April 18th. F. L. Hoover & Son, 1023 Cherry street; P. B. Davis, 240 North Sixteenth street; Harrison C. Rea, 1027 Wood street; W. O. Springer, 1624 Latimer street; H. E. Grau Co., 1709 Sansom street; Geo. Thayer Co., 1233 Ludlow street, and Wolverton & Collins, 28 E. Willow Grove avenue, are figuring.

Office, Shop (alt.) and Bicycle Shop, Ninth and Dudley streets. Architect, private plans. Owners, U. G. I. Co., Broad and Arch streets, Philadelphia. Reinforced concrete, brick, stone and steel, 3 stories, addition, 46x32 feet, 1 story, 40x46 feet, slag roof, concrete and maple floors (heating and lighting reserved), hollow metal sash, roof ventilators, metal window guards, ornamental iron work. Owners taking bids, due April 23rd. Frank G. Stewart, 1619 Sansom street; H. H. Burrell, 206 S. Quince street; R. C. Ballinger & Co., 218 North Thirteenth street, and F. E. Wallace, 1220 Chancellor street, are figuring.

Church, Sunday School and Parish House (fire repairs), 3925 Walnut street, Philadelphia, \$60,000. Architects, Walton & Huckel, 1211 Walnut street, Philadelphia. Owners, Walnut Street Presbyterian Church, Rev. J. A. MacCallum, pastor; Morris William, chairman building committee, Commercial Trust Building. Stone, 2 stories and 1 story and basement, steam heating, electric lighting, tile and marble work, maple and pine floors, slate roof. Plans about completed. Architect will take bids in ten days.

Loft Building, northwest corner Ranstead and Mole streets, Philadelphia. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, A. S. Tourison, 7014 Boyer st., Philadelphia. Reinforced concrete, 7 stories, 50x68 feet, slag roof, steam heating, electric lighting, rolled steel sash and skylights, fire doors, cement floors, elevators, waterproofing. Plans in progress. Architect will take bids in two weeks.

Store and Dwelling (alt.), Germantown and Mt. Airy avenues, \$35,000. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, F. J. Rinker, 7201 Germantown avenue. Brick, 3 stories, slate, slag and tin roof (steam heating, tile work, composition floors reserved), plumbing, electric lighting, store fixtures, flush bulks. Architects taking bids, due April 20th, at 9 A. M. Eugene Tourison, 1001 Chestnut street; A. P. Fraim, 319 Market street; Freund Const. Co., Bulletin Building; Jacob Y. Loux, 1121 Rising Sun avenue; L. W. Kitzelman, 125 E. Upsal street; and H. H. Wehmeier, 1004 Lehigh avenue, are figuring.

Factory, 1220-22 Buttonwood street, Philadelphia. Architect, Herman Miller, Crozer Building, Philadelphia. Owners, F. Weber & Co., 1123 Chestnut street, Philadelphia. Brick (slow burning), 5 stories and basement, 42x150 feet, slag roof, steam heating, electric lighting, maple and cement floors, hollow metal sash, fire and kalamein doors, hollow metal skylights, hollow tile, metal lath, (1) elevator, safety treads, metal window guards, waterproofing. Architect has received bids.

Mill Building, Dye House and Boiler House, Sixteenth and Hunting Park avenue. Archi-

teet, W. E. S. Dyer, Land Title Building. Owners, Bellevue Worsted Mills, Wistar street and P. & R. Ry. Brick (mill construction), 3 and 2 stories, 350x60 feet, 150x43 feet and 40x80 feet, slag roof, plank floors, rolled steel sash, fire doors. Plans about completed. Architect will take bids in a week.

Club House, 1809-17 Ranstead street, Philadelphia. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Musical Art Club, care of L. Stauffer Oliver, chairman building committee, 102 S. Seventeenth street, Philadelphia. Brick, steel and terra cotta, 2 stories, 50x62 feet, slag or composition roof (steam heating, electric work and plumbing reserved), hardwood and terrazzo floors, tile and marble work, metal lath. Plans about completed. Architects will take bids in ten days.

Club House and Rifle Range (alt. and add.), northeast corner Eighteenth and Filbert sts. Architects, M. of W. Dept., Broad St. Station, Philadelphia. Owners, P. RR. (Broad St. Dept. of Y. M. C. A.), Broad Street Station. Brick, 2 stories, 53x73 feet and 67x34 feet, tin roof, cement and pine floors (hot water heating, electric work reserved), marble work, sheet metal work, mill work, hollow metal skylights, metal window guards. Owners taking bids, due April 23rd, at 10 A. M. Lincoln H. Smith, Hale Building; A. L. Carhart, Hale Building; Brann & Stuart, Commercial Trust Building; E. E. Hollenback, Inc., 1804 Brandywine street; Chas. McCaul Co., 1713 Sansom street; Metzger & Fisher, Denckla Building; Mitchell Bros., 2125 Race street; Driscoll Co., Stock Exchange Building; John V. Speth & Co., 1714 Sansom street; F. A. Havens & Co., 845 North Nineteenth street; John N. Gill & Co., Otis Building; Monaghan & Losse, Inc., 2016 Chestnut street; Abel Bottoms & Sons Co., 3611 Walnut street; Robbins Contr. Co., Lafayette Building; Ward-Yardley Co., 1737 Filbert street; Irwin & Leighton, 126 North Twelfth street, and Roydhouse-Arey Co., 112 North Broad street, and Armstrong & Latta, Land Title Building; Graham-Campion Co., Otis Building; James H. Wells, Otis Building; H. E. Grau Co., 1707 Sansom street, and J. Sims Wilson Co., 1125 Brown street, are figuring.

Office Building (add.), Meadow and Mifflin streets, Philadelphia. Architects, private plans. Owners, Niles-Bement-Pond Co., on premises. Brick, 1 additional story, 20x43 feet, slag roof, maple floors, wall board. Owners have received bids.

Hospital (completion of fourth floor), 241 North Eighteenth street, Philadelphia. Architects, Hauer & Mowere, 3110 Columbia avenue, Philadelphia. Owner's name withheld. Brick, 38x24 feet, tin roof, steam heating, electric lighting, tile work, hollow metal skylights, fire escapes, metal lath. Ward-Yardley Co., 1737 Filbert street, taking sub-bids.

Factory No. 5, Keystone and Cottman sts., Philadelphia, \$15,000. Engineer, H. C. Eisenbise, Pennsylvania Building, Philadelphia. Owners, L. H. Gilmer Co., on premises. Brick (slow burning), 2 stories, 44x100 feet (heating and electric work reserved), slag roof, maple and plank floors, rolled steel sash. Engineer taking bids, due April 19th. Nickson-Duggan

Const. Corp., 1218 Chestnut street; F. W. Van Loom, Denckla Building; Burd P. Evans Co., Thirteenth and Wallace streets; J. Richard Jackson, Perry Building; A. R. Raff Const. Co., 1635 Thompson street; Hughes, Foulkrod Co., Commonwealth Building, and T. C. Traford, 1613 Sansom street, are figuring.

Service and Display Buildings, southwest corner of Fortieth and Walnut streets, \$60,000. Architect, W. G. Wilkins Co., Pittsburgh, Pa. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Granite, brick and hollow tile and terra cotta, 1 story, 30x30 feet and 28x19 feet, terra cotta roof (heating, plumbing, electric work and fixtures, gasoline storage system reserved), cement and tile floors, metal lath, copper covered doors and windows, hollow metal skylights. Revised plans about completed. Owners will take bids in a few days.

Store, Dwelling, Bake Shop and Stable, northwest corner of Fitzwater and Marshall streets, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, C. L. Viloti, 633 Fitzwater street, Philadelphia. Brick, 3 and 2 stories, 40x100 feet, slag roof, hot water heating, electric lighting, tile work, hollow metal skylights, flush bulks, pine and cement floors, metal lath, 1 elevator, stable hardware, metal ceilings (plumbing and lighting fixtures reserved). Architects taking bids, due April 26th. Tony Bressi, 702 South Sixth street, is figuring.

Apartment House (alt. and add.), 3413-15 Race street, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owners, Stein Realty Co., care of architect. Brick and plaster, 3 stories, 40x88 feet, slate and tin roof, oak floors, tile and marble work, fire doors (vapor vacuum heating, plumbing, electric work and fixtures reserved). Architect taking bids, due April 24th at noon. A. R. Raff, 1635 Thompson street; E. E. Hollenback, Inc., 1804 Brandywine street; R. Haibach Const. Co., 2530 West Thompson street; F. A. Havens & Co., 845 North Nineteenth street; Wm. R. Dougherty, 1610 Sansom street, are figuring.

Hospital (add.), Franklin and Thompson streets, \$60,000. Architect private plans. Owners, Children's Homeopathic Hospital, on premises. Tapestry brick, 2 stories. Work contemplated.

Twin Residences (74), Sixty-fifth and Market streets. Architect, private plans. Owner, Edw. P. Gorman, Fifty-second and Arch streets, Philadelphia. Stone, 2½ stories, 30x32 feet, asphalt shingle roof, hot water heating, electric lighting, tile work, hardwood floors. Owner taking sub-bids.

Stores (alts.), 4939-41 North Broad street, Philadelphia, \$15,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, F. W. Woolworth Co., Woolworth Building, New York City. Brick, 1 story and basement, slag or composition roof, pine floors, steam heating, electric lighting, tile work, hollow metal skylights, fire doors, roof ventilators, metal ceilings. Architect taking bids, due April 20th. Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street; B. Bornstein, 1610 North Franklin street; and Freund Const. Co., Bulletin Building, are figuring.

Residence (alt.), 106 North Thirty-fourth street, Philadelphia. Architect, Albert W. Dilks, 1001 Chestnut street, Philadelphia. Owner, Mrs. M. T. Zerekwier, on premises.

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Brick, 3 stories, slate and tin roof, pine and oak floors, carpenter and millwork (plumbing, hot air heating and electric work reserved). Architect taking bids, due April 23rd. Eugene Tourism, 1001 Chestnut street, is figuring.

Rectory, Fiftieth and Master streets, Philadelphia. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, Our Lady of

Angels R. C. Church, care of Rev. Victor Strumma, Fiftieth and Master streets, Philadelphia. Brick and stone, 2 stories, 26x48 feet, tin roof, pine floors, electric lighting, wire work (heating reserved). Architect taking additional bids, due April 20th. John A. Codori, 1235 Arch street, and John Mansolino, 536 North Gross street, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory, Tioga, Amber and Venango sts., and P. & RR., Philadelphia. Architects, private plans. Owners, The Gill Glass Co., East York and Thompson streets. Reinforced concrete, steel, brick and terra cotta, 3 stories, 24x184 feet, slag roof (elevator, heating and lighting reserved), cement, asphalt and maple floors, rolled steel sash and skylights, fire doors, fire escapes, iron stairs, waterproofing and dampproofing. Contract awarded to Wm. R. Dougherty, 1610 Sansom street.

Church (fire repairs), Thirty-fifth and Midvale avenue, \$10,000. Architect, private plans. Owners, Evangelical Lutheran Church of the Redeemer, Rev. G. H. Bechtold, 5304 North Water street, Philadelphia. Stone, 1 story and basement, 41x71 feet, slate roof, pine floors, electric lighting. Contract awarded to Standard Construction Co., 1713 Sansom street.

Residence and Garage, Fifty-third and Wynnefield avenue, Wynnefield, \$20,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Wm. Sharpless, 147 N. Tenth street, Philadelphia. Stone, 2½ stories, 39x36 feet, and 19x12 feet; garage, 1 story, 12x21 feet, slate roof, hot water heating, electric lighting, oak and pine floors, tile work. Contract awarded to Walter D. Prouse, 4115 Ogdon street, Philadelphia.

Loft Building, southwest corner Broad and Brown streets, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, R. A. Heymann & Bro., Widener Building, Philadelphia. Reinforced concrete, brick and stone, 5 stories, 40x106 feet, slag roof (plumbing, steam heating, electric work, (1) elevator reserved), cement and tile floors, tile and marble work, metal lath, roof ventilators. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street.

Sunday School, Fifty-Eighth and Springfield avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Springfield M. E. Church, Rev. Geo. P. Beck, 5852 Warrington avenue, Philadelphia. Stone and brick, 2 stories and basement, 74x79 feet, slag roof, pine and cement floors; hollow metal skylights, dampproofing, ventilators, terrazzo work (electric work reserved). Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Dye House, Trenton avenue and Westmoreland street, \$15,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, General Processing Co., Willard and Trenton avenue. Brick, 2 stories, 124x55 feet, slag roof, hollow metal sash, fire doors, roof ventilators, metal window guards (floors reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Dye House, Levering and Wilde streets, Manayunk, \$15,000. Architect, W. E. S. Dyer, Land Title Building. Owners, Fred Pearson & Co., Inc., on premises. Brick, 2 stories, 124x55 feet, slag roof, hollow metal sash, fire doors, roof ventilators, metal window guards (floors reserved). Contract awarded to H. E. Baton, Twelfth and Sansom streets.

Laundry Building (alt. and add.), 5722-32 Race street, Philadelphia, \$22,000. Architect, Chas. F. Seipp, 2008 South Seventeenth street, Philadelphia. Owners, Phila. Laundry Co., on premises. Brick, concrete and steel, 2 stories, 68x103 feet, slag and slate roof (electric work, boiler, machinery, heating tanks and (1) elevator reserved), steam heating, maple, cement and composition floors, fire doors. Contract awarded to Lincoln H. Smith, Hale Building.

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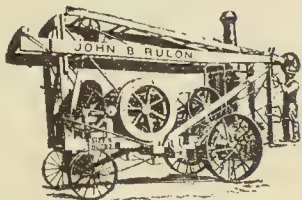


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Philadelphia, \$11,000. Architect, private plans. Owners, John Donahue, 4920 North Fifth street, Philadelphia. Brick, 1 story, 60 x100 feet, slag roof, cement floors, steam heating, electric lighting, metal lath, roof ventilators. Contract awarded to H. E. Sweger, 4435 North Uber street, Philadelphia.

Dining Room (add.), Thirty-fourth and Vintage avenue, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, the Commercial Museum, on premises. Addition to Commercial Museum dining room, brick, 1 story, 21x60 feet, slag roof, steam heating, electric lighting, cement floors. Contract awarded to P. J. Hurley, 1233 Cherry street, Philadelphia.

Bridge No. 53, south of Lewisburg, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel, waterproofing. Contract awarded to Allentown Const. Co., Allentown, Pa.

Bridge (O. H.), Main Line, north of Stowe, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel. Contract for masonry awarded to Brown King Const. Co., Commercial Trust Building, Philadelphia.

Passenger Station (alt. and add.), Cheltenham avenue, Philadelphia, \$49,989. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Consists of new concrete platforms, steel and timber shelter sheds, slate roofs, stairways and elevator lift, waiting rooms, metal skylights, ornamental iron work, asphalt paving, metal lath. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street.

Dye House, 3435 Richmond street, \$6,000. Architect, private plans. Owners, Quaker Dye and Bleach Works, Inc., on premises. Brick, 2 stories, 40x60 feet, slag roof, pine floors, rolled steel sash. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street.

PENNSYLVANIA

Construction News

Post Office, Media, Pa. Architect, Jas. A. Wetmore, Treasury Dept., Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Stone, brick, concrete and steel, 2 stories, 70x55 feet, composition roof, maple floors, tile and terrazzo work, metal lath, hollow metal sash, ornamental iron work, metal lath, roof ventilators, metal window guards and weatherstrips, dampproofing, wire work. Owners taking bids, due May 8th. Mutual Eng. Co., Franklin Building, and Chas. McCaul Co., 1713 Sansom street, are figuring.

Residence (alt. and add.), Villa Nova, Pa. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Morris Stroud, Jr., Villa Nova, Pa. Hollow tile and stucco, 2 stories, 45x28 feet, shingle roof, vapor vacuum heating, electric lighting. Architects taking bids. Powell Dilworth, Bryn Mawr, Pa., figuring. (Only bidder.)

Passenger Station (alt. and add.), Chestnut Hill, Pa., \$10,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Consists of platforms, shelters and stairways, steel and frame, concrete work, slag roof, asphalt floors. Plans in progress. Owners will take bids in two weeks.

Magazine Buildings (3), Shell House and Office Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, Navy Dept., F. R. Harris, chief, Washington, D. C. Brick and concrete, 1 story (hot water heating, plumbing, electric work separate bids), slag and asbestos shingle

roof, wood floors, metal lath. Owners ready for bids, due May 7th, at 11 A. M.

Garage, Evergreen and Stenton ave., Chestnut Hill, Pa. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street. Owner, Franklin D. Wieand, Jr., on premises. Stone, 1½ stories, 30x30 feet, slate roof, steam heating, cement floors, electric lighting. Plans in progress. Architect will take bids in one week.

Residence (alt. to apartment house), Lansdowne, Pa. Architect, Frank Allison Hays, 1524 Chestnut street, Philadelphia. Owner, Mrs. Seymour Eaton, care of architect. Stone and plaster, 3 stories, 70x50 feet, shingle roof, hardwood floors (hot water heating and electric work reserved). Architect taking revised bids, due April 18th. Jos. L. Lowden, Geo. W. Riley, J. Howard Roberts, Lansdowne Const. Co., all of Lansdowne, Pa.; Gilligan & Son, Clifton Heights, Pa., are figuring.

Garage, Melrose Park, Pa. Architect, Lachman & Murphy, Drexel Building, Philadelphia. Owner, H. S. Monroe, Griscom street, Frankford, Philadelphia. Frame and stucco, 1 story, 10x20 feet, shingle roof, cement floor, hot water heating, electric lighting. Plans in progress.

Residence (alt. and add.), Glenn road above Wistar road, Ardmore, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, S. P. Curtis, 712 Locust street, Philadelphia. Stone, 2½ stories. Plans about completed. Architect will take bids in a few days.

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BOTH PHONES

Ore Storage Yard, Walls and Floors (extension), Coatesville, Pa. Architect, private plans. Owners, Worth Bros., Coatesville, Pa. Concrete. Owners have received bids.

Hotel Apartment Building, Cynwyd, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Cynwyd Apartment Co., Cynwyd, Pa. Stone and hollow tile, 3½ stories and basement, 35x98 feet, slate roof, vapor heating, electric lighting (lighting fixtures and decorating reserved). Architect taking bids, due April 23d, at noon. Pringle Borthwick, 8018 Germantown avenue; Wm. C. Wright, 22Harvey street; Henry P. Schneider, 3713 Old York road; Alex. Chamberly, 243 South Tenth street; Ward-Yardley Co., 1737 Filbert street, and Wm. H. Parلمان, Devon, Pa., are figuring.

School (add.), Rockledge, Montgomery Co., Pa. Architect, Christian H. Fries, 8129 Pine road, Fox Chase, Pa. Owners, Board of Education of Rockledge, Montgomery County, Pa. Stone and brick, 2 stories, 44x46 feet, slag roof, pine and cement floors (heating, lighting and plumbing reserved), pine and cement floors, roof ventilators, fire doors. Architect taking bids, due April 23d, at 8 P. M. Albert Zellfelder, 151 South Broad street; Jos. Aspbey, Second street pike, Fox Chase, Pa.; H. E. Grau Co., 1709 Sanson street; Smith-Hardican Co., 1606 Cherry street; Lewis Neveling, Fox Chase, Philadelphia; W. John Stevens, Inc., Wynote, Pa.; Krewson Bros, Glenside, Pa., are figuring.

Penn Cottage (alt. and add.), Montgomery avenue and Wister road, Wynemewood, Pa., \$6,500. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Frame and plaster, 2 stories, addition, 20x30 feet, shingle roof, hardwood floors, plumbing, electric lighting, tile work. Plans about completed.

Signal Tower, Chestnut Hill, Pa., \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick, 2 stories, slag roof. Plans about completed. Owners will take bids in a week.

Garage, Gravers Lane, Chestnut Hill, Pa. Architects, Chas. K. Willing and Furness, Evans & Co., Franklin Bank Building. Owner, Wm. L. Barclay, on premises. Stone, 1½ stories, 32x28 feet, slate roof, cement floors, electric lighting (heating and plumbing reserved). Architects have received bids.

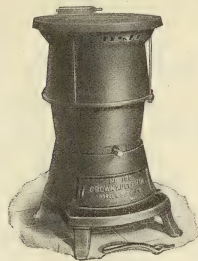
Residence, near York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, Mrs. Fred Palmtag, York, Pa. Stone and stucco, 2 stories, 40x80 feet, slate roof, steam heating, electric lighting, yellow pine floors. Plans in progress.

Garage and Apartments, Lancaster, Pa., \$3,500. Architect, J. B. Harman, 48 N. Queen street, Lancaster, Pa. Owner, Howard F. Fritsch, Lancaster, Pa. Brick, 2 stories, 28x84 feet, Carey roof, hot water heating, electric lighting, wood floors. Plans completed. Owner ready for bids.

Residence (alt. and add.), E. Orange street, Lancaster, Pa. Architect, Frank J. Everts, Woolworth Building, Lancaster, Pa. Owner, J. Strang, on premises. Brick, 2 stories, 21x25 feet, slag roof, electric lighting, hardwood floors. Plans in progress.

Grain Elevator (add.), Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, John W. Eshelman, Lancaster, Pa. Brick (slow burning construction), 2 stories, 64x120 feet, slag roof, concrete floors, electric lighting, fire doors, metal lath, elevators. Plans in progress.

Laundry and Apartment Building, Lancaster, Pa. Architect, H. M. Bartholomew, 39



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E. Grant street, Lancaster, Pa. Owner, W. F. Boyer, Lancaster, Pa. Brick and terra cotta, 3 stories, 72x135 feet, slag roof, steam heating, electric lighting, metal lath, cement floors, marble work. Owner taking sub-bids.

Mausoleum, Hanover, Pa., \$20,000. Architect, Edward Leber, Hay Building, York, Pa. Owners, York-Mausoleum Co., J. R. Smith, Easton, Pa. Marble, granite and bronze, 1 story, 44x28 feet, tile roof, marble floors, tile and marble work. Owner will take bids in two weeks.

Store, Factory and Apartments (alt. and add.), W. Market street, York, \$20,000. Architect, Ed. Leber, Hay Building, York, Pa. Owners, H. B. Beard & Co., York, Pa. Brick, 3 stories, 230x32 feet, steam heating. Architect taking bids, due April 15th. Geo. W. Gilbert, Caspar Orman, Samuel Gladfelter, Frank Werner and Harry Boyer, all of York, Pa., are figuring.

Y. M. C. A., Lewistown, Pa., \$75,000. Architect, John B. Hamme, Wiest Building, York, Pa. Owners, Y. M. C. A., of Lewistown, Pa. Brick and stone, 3 stories, 80x120 feet, steam heating, electric lighting, tile work, wood floors, hollow tile, metal lath. Owners taking bids, due April 14th.

Sales Station, Bethlehem, Pa. Architect, private plans. Owners, Atlantic Refining Co., care of R. D. Leonard, 3144 Passyunk avenue, Philadelphia. Brick, concrete and steel, warehouse, 1 or 2 stories and basement, 67x47 feet; pump house, 1 story, 14x7 feet; loading shed, tank enclosure, 1 story, 27x47 feet; loading platform, garage (alteration and addition), 2 stories, 32x50 feet, Barrett roof (lighting, heating, plumbing, paving reserved), cement and pine floors, hollow tile, metal lath, rolled steel sash, fire doors, iron stairs, hollow tile, elevator (1), water-proofing, wire work. Owners taking bids, due April 23d, at 10 A. M. Eugene Tourison, 1001 Chestnut street; H. H. Wehmeyer, 1004 West Lehigh avenue, and Metzger & Fisher, Denckla Building, are figuring.

Residence (alt. and add.), 612 North Second street, Harrisburg, Pa. Architects, Fahnestock and Raldbaugh, Patriot Building, Harrisburg, Pa. Owner, Mrs. Ed. Boyer, Pine st., Harrisburg, Pa. Brick, rear addition, 1 story, 15x20 feet, electric lighting, steam heating (central plant), tile and marble work, hardwood floors, wire work. Plans in progress.

Store, Garage and Apartments, 1421 Derry street, Harrisburg, Pa., \$8,000. Architect, Geo. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, H. G. Day, 1307 Derry street, Harrisburg, Pa. Brick, 3 stories, 20x65 feet and 20x37 feet, slag roof, steam heating, electric lighting, cement and hardwood floors, wire

work. Owner taking bids, due as soon as possible.

Office Building, Millersburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, Brubaker Bros., Centre street, Millersburg, Pa. Brick, 1 story, 40x60 feet and 25x50 feet, composition roof, oak floors. Plans in progress.

Hotel, Third and Walnut streets, Harrisburg, Pa., \$1,000,000. Architect, W. L. Stoddard, 9 E. Fortieth street, New York City. Owners, Penn-Harris Hotel Co., E. Z. Wallflower, president, Harrisburg. Brick, steel and concrete, 12 stories, composition roof, metal lath and sash, elevators, dumbwaiters, tile and marble work. Architect will take bids in a few days.

Pumping Station, Easton, Pa., \$4,000. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owners, Lehigh Water Co., Easton, Pa. Brick, 1 story, 30x20 feet, slag roof, hot water heating, electric lighting, concrete floors. Owners taking bids, due April 26th. A. A. Bechtel, Asa Smith & Son, Mr. Snyder and F. J. Leach & Co., all of Easton, are figuring.

Laundry Building, Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owners, T. A. Squier, Easton, Pa. Brick, 1½ stories, 45x90 feet, Barrett roof, steam heating, electric lighting, concrete and hardwood floors. Plans completed. Owner taking bids.

Factory, Easton, Pa. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owner, Radium Cleaner Co., Easton, Pa. Brick, mill construction, 1 story, 75x150 feet, slag roof, steam heating, electric lighting, wood floors. Architect ready for bids.

House of Detention, Sixth and Lehigh sts., Easton, Pa. Architect, J. J. Weitzenfeld, First National Bank Building, Easton, Pa. Owners, County Commissioners of Northampton Co., Easton, Pa. Brick, 2½ stories, 29x45 feet, slate roof, vapor heating, electric lighting, metal lath, concrete and wood floors. Owners taking revised bids, due April 20th. Samuel Gettler, Easton, Pa., is figuring.

Office and Apartments, Nazareth, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, A. G. Connelly, Nazareth, Pa. Brick, 3 stories, 40x60 feet, slag roof, steam heating, electric lighting, metal lath, tile and marble work, wood floors, terrazzo work. Owners taking bids. Flick & Simon, Nazareth, Pa., are figuring.

School House, Fountain Hill, Pa., \$30,000. Architect, E. H. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Owners, Borough of Fountain Hill, Fountain Hill, Pa. Brick, 2 stories, 80x48 feet, slag roof, steam heating,

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electric lighting, maple floors. Owners have received bids.

Theatre and Stores (8), Tenth and Hamilton streets, Allentown, Pa., \$300,000. Architect, David Levy, Buckley Building, Allentown, Pa. Owners, Channock & Senderowitz, Allentown, Pa. Reinforced concrete, steel, hollow tile and terra cotta. Theatre, 1 story and balcony, 100x140 feet; stores (7), 3 stories, 140x120 feet, and (1) 6 stories, 40x230 feet, slag roofs, steam heating, electric lighting, tile and marble work, wood floors, metal lath, (2) elevators. Architect taking sub-bids on all lines.

Hospital (Isolated Ward), South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owners, Children's Home, South Bethlehem, Pa. Brick, 1 story and basement, 30x60 feet, slate roof, steam heating, electric lighting, yellow pine floors. Architect taking bids.

Store Building and Garage, Bethlehem, Pa. Architect, John W. Reilly, Buckley Building, Allentown, Pa. Owner, John Sallash, South Bethlehem, Pa. Brick and hollow tile, 2 stories, 20x80 feet, slag roof, hot water heating, electric lighting, metal lath, yellow pine floors, gasoline storage system. Plans completed. Owner taking bids.

Residences (5), South Bethlehem, Pa. Architect, J. W. Reilly, Buckley Building, Allentown, Pa. Owner, Morris Glazier, South Bethlehem, Pa. Brick, 2 stories, 70x44 feet, slag roof, yellow pine floors, gas and electric lighting, hollow tile. Plans completed. Owner taking bids.

Residence, Allentown, Pa., \$5,500. Architect, John W. Reilly, Buckley Building, Allentown, Pa. Owner, Jas. Reininger, Allentown, Pa. Brick, 2½ stories, 34x45 feet, slate roof, hot water heating, combination lighting, yellow pine floors. Plans completed. Owners taking bids.

Residence, Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, J. M. Degnan, care of architect. Brick, 2 stories. Plans in progress.

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Residence, South Bethlehem, Pa., \$10,000. Architect, David Levy, Buckley Building, Allentown, Pa. Owner, Samuel Weisenberger, South Bethlehem, Pa. Brick or hollow tile and stucco, 2½ stories and basement, 35x30 feet and 14x19 feet, slate roof (vacuum steam heating, plumbing, tile work, lighting fixtures reserved), tile work, hardwood floors, metal lath. Plans completed. Architect ready for bids in a few days.

Chapel, Edgeboro, Bethlehem, Pa., \$10,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian Congregation, care of Rev. W. V. Moses, or Emil Bishop, chairman of committee, Edgeboro, Bethlehem, Pa. Brick, 1 story, 30x45 feet, slate roof, wood floors, hot water heating, electric lighting. Plans in progress.

Bridge, between Bethlehem and South Bethlehem, Pa. Engineer, Mr. Newmeyer, Bethlehem, Pa. Owners, Bethlehem Bridge Committee, Bethlehem, Pa. Wood and steel (concrete and steel piers), 400 feet long, 30 feet wide. Owners have received bids.

Residence, Allentown, Pa., \$7,000. Architect, Robt. E. Ochs, City Realty Building, Bethlehem, Pa. Owner, name withheld. Stone, hollow tile and stucco, 2½ stories, 29x50 feet, tile roof, hot water heating, electric lighting, oak and yellow pine floors. Plans completed.

Residence, South Bethlehem, Pa., \$5,000. Architect, Robt. E. Ochs, City Realty Building, Bethlehem, Pa. Owner, name withheld. Brick and stucco and hollow tile, 2½ stories, 27x32 feet, slate roof, hot water heating, electric lighting, tile work, oak and yellow pine floors. Architect ready for bids.

Residence, Allentown, Pa., \$7,000. Architect, Robert E. Ochs, City Realty Building, Bethlehem, Pa. Owner, name withheld. Brick, 2½ stories, 37x47 feet, green slate roof, hot water heating, electric lighting, tile work, yellow pine and oak floors. Plans in progress.

Residences (100), South Bethlehem, Pa. Architects, A. A. Schultz, Bethlehem Trust Building, Bethlehem, Pa. Owners, Citizens' Realty Co., Bethlehem, Pa. Brick, frame, hollow tile and stucco, 2½ stories, 28x40 feet, shingle roof, steam heating, hot air heating, electric lighting, wood floors. Plans in progress.

Residence, Hill Top, Bethlehem, Pa., \$10,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. T. Magee, Bethlehem, Pa. Brick, 2½ stories, 30x43 feet, slate or shingle roof, hot water heating, electric lighting, tile work, hardwood floors, hollow tile, metal lath. Plans in progress.

Cottage, Ninth avenue, Bethlehem, Pa., \$7,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, A. M. Weingartner, Bethlehem, Pa. Hollow tile and stucco, 2½ stories, shingle roof hot water

heating, electric lighting, hardwood floors. Plans in progress.

Bungalow, Harold avenue, Clifford Park, Pa. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown, Pa. Owner, Wm. J. Scott, Clifford Park, Pa. Frame, 1½ stories, 28x52 feet, shingle roof (heating not decided), electric lighting, oak and pine floors. Plans completed.

Residence, Bangor, Pa. Architect, Wm. M. Michler, Drake Building, Easton, Pa. Owner, T. O. Werner, Bangor, Pa. Brick, 2½ stories, 43x39 feet, slate roof, hardwood floors (heating not decided), electric lighting, tile work, hollow tile. Plans completed. Owner will take bids.

Residence and Garage, Gillman and Station avenue, Langhorne, Pa. Architects, Hancock & Hokanson, Bailey Building, Philadelphia. Owner, H. C. Parry, Langhorne, Pa. Hollow tile and stucco, 2½ stories, 30x50 feet, garage, 1½ stories, 21x24 feet, slate roof, warm air heating, electric lighting, hardwood floors, hollow tile. Architect have received bids.

High School, Upper Darby, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Board of Education, School District of Upper Darby, care of J. Milton Lutz, secretary, First National Bank, Clifton Heights, Pa. Stone, 2 stories, 100x200 feet, central wing 60x72 feet, slate and Security roof, reinforced floors, maple floors, tile work, hollow metal skylights, fire doors, safety treads, dampproofing (direct and indirect system of steam heat, including ventilation, electric work and plumbing separate bids. Low bidders: Standard Const. Co., 1713 Sansom street, Philadelphia, \$149,568; Butz & Clader, Allentown, Pa., \$155,250; Nickson-Duggan Const. Corp., 1218 Chestnut street, Philadelphia, \$157,900.

School Building, Yardley, Bucks Co., Pa. Architects, Hancock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School District of the Borough of Yardley, E. E. Yeager, secretary of School Board, Yardley, Pa. Stone, concrete and brick, or hollow tile and plaster, 1 story, 148x102 feet, slate, tin and copper roof (plumbing, heating, ventilating, electric work and fixtures reserved), cement, oak, gum and pine floors, metal lath, hollow metal skylights. Owners ready for bids, due April 27th at noon. Plans may be obtained from architects.

Lodge Building (alt.), Sixth street, Reading, Pa. Architect, Harris W. Kiehl, Chicago, Ill. Owners, Rajah Temple of Mystic Shriners, care of George F. Eisenbrown, chairman of Building Committee, Muhlenberg Township, Reading, Pa. Brick and stone, 3 stories, 80x210 feet, heating not decided, electric lighting. Plans about completed. Owners will take bids in a few days.

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Garage, Fleetwood, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owner, Harry Ulrich, Fleetwood, Pa. Brick, 1 story, 20x24 feet, slate or tile roof, hot water heating, electric lighting, cement floors. Architect ready for sub-bids.

Garage, Center avenue and Woodward st., Reading, Pa., \$25,000. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Traylor Motor Garage Co., Allentown, Pa. Brick, 2 stories, 120x64 feet, hot water heating, electric lighting, cement and wood floors. Plans completed. Architect taking sub-bids.

Barn, Landis Store, Berks County, Pa., \$5,000. Architect, L. D. Lance, Reading, Pa. Owner, John Rhoads, Landis Store, Berks Co., Pa. Stone and frame, 2 stories, 50x114 feet, slate roof, wood floors. Plans completed. Owner will take bids in a few days.

Hotel, Dorney Park (near Allentown), Pa. Architect, Calvin J. Young, 520 Washington street, Reading, Pa. Owners, Allentown and Reading Traction Co., Reading, Pa. Stone and stucco, 2½ stories, 50x75 feet, slate roof, vapor heating, electric lighting, tile work, yellow pine floors, dumb waiters. Plans completed.

Sewage System (add.), West Chester, Pa. Borough engineer, Nathan Rambo, West Chester, Pa. Consulting engineers, Remington & Vosbury, Camden, N. J. Owners, City of West Chester, Borough Hall, West Chester, Pa. Addition to present system, pumping station and cast iron pipe main. Owners taking bids, due April 25th. M. & T. E. Farrell, West Chester, Pa., and Louis Robinson & Gant, Land Title Building, Philadelphia, are figuring.

Residence, Penfield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John L. De Mar, 1827 North Thirty-first street, Philadelphia. Frame, 2½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting, tile work, hardwood floors. Architect taking bids, due April 25th. Gilligan & Son, Clifton Heights, Pa.; J. Paul Emrey, North Wynnefield, Philadelphia; Edw. Holland, Harwood Park, Pa., and E. Oscar Lobb and Eugene G. Beard, both of Lancaster, Pa., are figuring.

Stores (6) and Apartments, Chester Pike and Springfield Road, Darby, Pa. Architects, Norman Hulme & John J. Dull, 1524 Chestnut street. Owners, Dr. J. W. Harrigan & A. Foster, Darby, Pa. Brick, terra cotta trim, 2 stories, 48x116 feet (heating reserved), tile roof, cement and poplar floors, electric light, marble work, metal ceilings. Architects taking revised bids, due April 27th. Wills-Ludwick Co., 34 South Seventeenth street, are figuring.

Residence, Aronimink, Delaware County, Pa. Architect, Joseph V. Phelan, 5017 Chancellor street, Philadelphia. Owner, Daniel J. Stinson, 121 North Sixtieth street, Philadelphia. Brick and stone, 2 stories, 50x35 feet, slate roof, pine floors, hot water heating, electric lighting, marble work, metal lath. Owner taking bids, due April 23rd. Wills-Ludwick Co., 34 South Seventeenth street; D. M. O'Dea, 5219 North Fifth street, and Abel Bottoms & Sons Co., 3611 Walnut street, are figuring.

Residence, Mill Creek Road, Ardmore, Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, J. Howard Pew, Finance Building, Philadelphia. Stone and brick, 2½ stories, 32x24 feet, tin roof, oak and pine floors, electric lighting, tile work (heating, lighting fixtures reserved), wire work. Architects taking bids, due April 24th. Thomas C. Trafford, 1613 Sansom street; Wil-

bert O. Springer, 1624 Latimer street; Charles C. Pace, Merion, Pa.; Gray Bros., Rosemont, Pa., and W. Harry Roberts, Ardmore, Pa., are figuring.

High School, Upper Darby, Pa., \$150,000. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Board of Education, School District of Upper Darby, care of J. Milton Lutz, secretary, First National Bank, Clifton Heights, Pa. Stone, 2 stories, 110x200 feet, central wing 60x72 feet, slate and security roof, reinforced concrete floors, maple floors, tile work, hollow metal skylights, fire doors, safety treads, dampproofing (direct and indirect system of steam heating, including ventilating, electric work and plumbing separate bids). (Rear rooms to be cut off for revised estimate.) Architect taking revised bids, due April 18th at noon. Standard Const. Co., 1713 Sansom street; Butz & Clader, Allentown, Pa., and Nickson-Dugan Const. Corp., 1218 Chestnut street, are

figuring.

Twin Residences (2), Queen Lane Manor, Pa. Architects, Neubauer & Boyd, 1118 Chestnut street, Philadelphia. Owner, Horace K. Read, Morris Building, Philadelphia. Stone, 2½ stories, 24x41 feet, slate roof, electric lighting, hot water heating, tile work, hardwood floors. Plans completed.

City Hall and Police Building (alt.), Chester, Pa. Architect, Clarence W. Brazer, 1133 Broadway, New York City. Owners, City of Chester, care of John H. Mirkil, Superintendent of Parks and Public Property, Chester, Pa. Brick and stone, steel and terra cotta, 2 stories, 80x35 feet and 35x22 feet, and 2 stories, 35x100 feet, slate roofs, tile, cement and pine floors, hollow tile metal lath, tile and marble work, fire and kalamein doors, metal window guards (plumbing, steam heating, electric work separate bids). Low bidders: James H. Wells, Otis Building, \$69,463; James B. Flounders, 1329 Arch street, \$71,516.

PENNSYLVANIA Contracts Awarded

School, Bethlehem, Pa., \$60,000. Architect, E. H. Bittinger, Wilber Trust Building, Bethlehem, Pa. Owners, City of Bethlehem, Board of Education, Bethlehem, Pa. Brick, 2 stories, 200x50 feet, slag roof, maple floors, electric lighting (heating reserved), tile work. Contract awarded to Howard Stout, Bethlehem, Pa.

Bethlehem Preparatory School, Bethlehem, Pa. Architect, A. A. Schultz, Bethlehem, Pa. Owners, Bethlehem Preparatory School, Bethlehem, Pa. Brick, 3 stories, 40x50 feet, steam heating, electric lighting, metal lath, waterproofing, hardwood floors, metal lockers. Contract awarded to George Mordinger, Bethlehem, Pa.

Garage, Fifth and Broad streets, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Allen Motor Co., care of architect. Brick, 1 story, 50x150 feet, slag roof, concrete floors, electric lighting. Contract awarded to Butz & Clader, Allentown, Pa.

Hotel (int. alt.), Linden street and Elizabeth avenue, Bethlehem, \$3,500. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, C. F. Whitman, on premises. Cabinet work and terrazzo work. Contract awarded to Geo. Nowhard, Bethlehem, Pa.

Bath House, Allentown, Pa. Architect, Robt. E. Ochs, City Realty Building, Bethlehem, Pa. Owners, Allentown Land Co., Allentown, Pa. Frame and stucco, 2 stories, 45x170 feet, slag roof, yellow pine floors, electric lighting. Contract awarded to A. Albright & Son, Allentown, Pa.

Office Building (add.), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Times Publishing Co., Bethlehem, Pa. Brick, 4 stories. Contract awarded to F. P. Speck, Bethlehem, Pa.

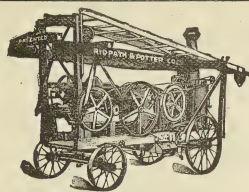
Joiner Shop, Chester, Pa., \$25,000. Architect, private plans. Owners, Sun Ship Building Co., Finance Building, Philadelphia. Brick and hollow tile, 2 stories, 50x200 feet, tile roof (electric work and heating reserved), iron stairs, cement floors. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Office Building (add.), Patriot Building, Harrisburg, Pa., \$22,000. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, McCormick Estate, Patriot Building, Harrisburg, Pa. Brick, 1 story, 26x155 feet, concrete roof, steam heating (central plant), wood floors, electric lighting, hollow tile. Contract awarded to Wm. S. Miller, Telegraph Building, Harrisburg.

Store and Apartments, Third and Kelker streets, Harrisburg, Pa., \$14,000. Architects, F. G. Fahnstock and John Raidabaugh, Patriot Building, Harrisburg, Pa. Owner, H. O. Koons, 2012 North Third street, Harrisburg, Pa. Brick, 3 stories, 45x70 feet, slag roof, steam heating, metal lath, electric lighting, dumbwaiters, store fixtures, tile and marble work. Contract awarded to J. E. Koons, 2012 North Third street, Harrisburg, Pa.

Store and Loft Building, 210 Market street, Harrisburg, Pa., \$15,000. Architect, F. G. Fahnstock, Patriot Building, Harrisburg, Pa. Owners, H. & L. Lewengard, care of architect. Brick, 4 stories, 105x22 feet, composition roof, electric lighting, wood floors, (1) elevator,

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tile work, terrazzo work. Contract awarded to Strayer & Eshelman, Lemoyné, Pa.

Residence, Melrose Park, Pa., \$7,500. Architects, Lechman & Murphy, Drexel Building, Philadelphia. Owner, H. S. Monroe, Griscom street, Frankford. Frame and stucco, 2½ stories, shingle roof, hot water heating, electric lighting, tile work, hardwood floors (lighting fixtures reserved). Contract awarded to H. A. L. Smink, Akron and Wakeling streets.

Sunday School, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, United Brethren Sunday School, York, Pa. Brick and stone, 2 stories, 80x120 feet, tin roof, pine floors, electric lighting. Contract awarded to Hess Bros., York, Pa.

Theatre Building, South George and Philadelphia streets, York, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Jackson Theatre Co., York, Pa. Brick, stone and stucco, 1 story and balcony, 100x60 feet, slag roof, steam heating, electric lighting, fire doors, tile work, yellow pine floors, terrazzo work. Contract awarded to S. F. Gladfelter, York, Pa.

Warehouse, Mulberry street, Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owners, Sheet Metal & Supply Co., Lancaster, Pa. Brick, 1 story, 34 x24 feet, slag roof, electric lighting, fire doors, wood floors. Contract awarded to Jos. Zook, Lancaster, Pa.

Twin House, Grand View Park, Lancaster, Pa. Architect, M. R. Evans, 10 Orange st., Lancaster, Pa. Owners, Lancaster Real Estate Co., Lancaster, Pa. Brick, 2½ stories, 30x60 feet, tin and slate roof, electric lighting, yellow pine floors. Contract awarded to Samuel Bally, Lancaster, Pa.

Residences (3), Lancaster, Pa. Architect, Malvern Evans, Lancaster, Pa. Owner, Dr. E. S. Snyder, Lancaster, Pa. Brick, 2½ stories, slate roof, hot water heating, electric lighting, tile work, hardwood and yellow pine floors. Contract awarded to Ray Clark, Lancaster, Pa.

Church and Sunday School, New Jerusalem, Pa., \$15,000. Architect, Arthur A. Heilman, 612 Washington street, Reading, Pa. Owners, Evangelical Lutheran congregation, New Jerusalem, Pa. Stone, 1 story, 66x39 feet and 34x40 feet, slate roof, steam heating lighting

not decided, wood floors. Contract awarded to Ambrose Hoffman, Fleetwood, Pa.

High School (int. alt.), Lebanon, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, School Board of Education, Lebanon, Pa. Consists of interior alterations. Contract awarded to Beard Const. Co., Reading, Pa.

Bakery (alt.), 108-110 South Fifth street, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owners, Schofer Bakery, 108 South Fifth street, Reading, Pa. Brick, 2 stories, 48x15 feet, slag roof, yellow pine and maple floors, electric lighting, metal lath, elevators, dumb waiter, roof ventilators, metal ceilings. Contract awarded to James C. Norton, Baer Building, Reading, Pa.

Residence, Wyomissing Hills, Pa., \$4,500. Architect, Fred Miller, 164 Greenwich street, Reading, Pa. Owner, Fred Miller, 164 Greenwich street, Reading, Pa. Brick and stucco, 2½ stories, 28x30 feet, slate roof, hot water heating, electric lighting, hardwood floors, hollow tile. Contract awarded to Adam P. Spotts, Wernersville, Pa.

Garage, Reading, Pa., \$2,000. Architect, F. A. Muhlenberg, Colonial Trust Building, Reading, Pa. Owner, Dr. Henry, Reading, Pa. Stucco, 1 story. Contract awarded to George H. Sherman, Reading, Pa.

Store Building (alt. and add.), 343-45 Penn street, Reading, \$6,000. Architect, Arthur A. Heilman, 612 Washington street, Reading, Pa. Owner, Mrs. W. Bischoff, care of architect. Brick, 1 story, 40x31 feet, tin roof (heating reserved), wood floors, rolled steel skylights. Contract awarded to L. G. Heinby, 543 Ritter street, Reading, Pa.

Club House, Ardmore, Pa., \$25,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Woman's Club of Ardmore, Ardmore, Pa. Stone, 1 story, 43x100 feet, slate roof, cement and concrete work, tile work. Contract awarded to Frank H. Mahan, Ardmore, Pa.

Figery, Croyden, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia. Owners, Walnut Grove Farm, Croyden, Pa. Hollow tile, 1½ stories, 28x80 feet, asphalt shingle roof, cork and cement floors. Contract awarded to C. Y. Stradling, Oxford Valley, Pa.

water heating, electric lighting, cement floors. Plans completed. Architect will sub-let.

Bank Building (alt. and add.), Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owners, Cinnamin-

son National Bank, Riverton, N. J. Brick, 1 story, slag roof. Plans in progress. Architect ready for bids in a week.

Residences (101), New Orange Park, N. J., from \$3,000 to \$5,000. Architect, Arnolo Eberhard, 901 Crozer Building, Philadelphia. Owner, James Arthur, 6544 Woodland avenue, Philadelphia. Concrete foundations, frame, 2 stories, 20 to 22x40 feet, slate roofs, electric lighting (heating central plant), hardwood finish interior. Owner will build and is ready for sub-bids.

Office Building, Plainfield; N. J. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Brick, concrete and steel, 2 stories and basement, 80x120 feet, composition roof, oak and maple floors, hollow tile, metal lath, tile and marble work, rolled steel sash, hollow metal doors, iron stairs, metal window guards, dampproofing (electric work and steam heating reserved). Architects taking bids, due April 24th, at 3 P. M. F. W. Van Loon, Denckla Building; H. E. Baton, Twelfth and Sansom streets; John R. Wiggins & Co., Otis Building; H. H. Burrell, 206 South Quince street; F. G. Stewart, 1619 Sansom street; Flynt Building and Const. Co., 30 Church street, New York City; John W. Ferguson Co., Paterson, N. J., and Matthews Const. Co., Princeton, N. J., are figuring.

Factory Building No. 18, Second and Arch streets, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Joseph Campbell Co., Camden, N. J. Brick, concrete and steel, 2, 4 and 5 stories, 148x79 feet, slag roof (heating, lighting and plumbing reserved), asphalt floors, rolled steel sash, hollow metal skylights, fire doors, roof ventilators. Architects taking bids, due April 18th. Cramp & Co., Denckla Building; Warren-Moore Co., Commercial Trust Building; Irwin & Leighton, 126 North Twelfth street; Barclay White & Co., 1713 Sansom street; Turner Concrete Steel Co., 1713 Sansom street; F. W. Mark Const. Co., Finance Building, Philadelphia, are figuring.

High School, Bridgeton, N. J. Architect, E. Z. School, 31 North Sixth street, Reading, Pa. Owners, School Board, care of Frank Gowan, secretary, Bridgeton, N. J. Stone or brick, reinforced concrete, 2 stories and basement, 215x50 feet, slag roof (steam heating, electric lighting, plumbing, iron work reserved), metal lath, waterproofing and dampproofing, tile doors, ventilators, safety treads, tile and marble work, metal lockers, cabinet work. Low bidders: McCloskey & Bahls, 1620 Thompson street, \$137,700; Metzger & Fisher, Denckla Building, \$148,200.

Residence, Atlantic City, N. J., \$7,500. Architect, Peter Klings, 1012 Walnut street, Philadelphia. Owner, J. S. Murphy, Atlantic City, N. J. Frame, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors. Plans in progress. Architect will take bids in one month.

Twin Residence, Salem, N. J., \$5,000. Architects, Custer & Seltzer, Third and Market streets, Camden, N. J. Owner's name withheld. Hollow tile, 2½ stories, 43x28 feet, shingle roof (heating reserved), hot water heating, electric lighting, tile work, yellow pine floors. Plans in progress.

Residence and Garage, Haddonfield, N. J. Architects, Custer & Seltzer, 302 Market st., Camden, N. J. Owner's name withheld. Hollow tile, 2½ stories, 48x45 feet, shingle roof, hot water heating, electric lighting, tile work, hardwood floors. Architects taking sub-bids.

Office Building, Plainfield, N. J. Architects, Harris & Richards, Drexel Building, Philadel-

NEW JERSEY Construction News

Garage, Pergola and Driveway, Haddonfield, N. J. Architect, W. W. Sharpley, Brown Bros. Building, Philadelphia. Owner, S. B. Dobbs, 1218 Chestnut street, Philadelphia. Frame and brick, 2 stories, 35x40 feet, slate roof, hot

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

phia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Brick, concrete and steel, 2 stories and basement, 80x120 feet, composition roof, oak and maple floors, hollow tile, metal lath, tile and marble work, rolled steel sash, hollow metal doors, iron stairs, metal window guards, dampproofing (electric work and steam heating reserved). Architects taking bids, due April 24th. Pringle Borwick, 8015 Germantown avenue, Philadelphia, is figuring, in addition to those previously reported.

Store and Dwelling and Moving Picture Theatre, Trenton, N. J. Architect, private plans. Owner, J. Cohen, East Trenton, N. J. Brick, 2½ stories, 50x60 feet, slag roof, wood floors, electric lighting. Owner taking bids, due as soon as possible. J. S. Mather & Son, Greenwood and Canal streets, Trenton, N. J., are figuring.

Apartment House, Prospect street, Trenton, N. J., \$9,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Wesley Lanning, Trenton, N. J. Brick,

3 stories, 25x56 feet, slag roof (heating reserved), electric lighting, tile work, dumb waiter. Plans completed.

School, Princeton Borough, N. J. Architect, Robt. A. Schumman, 32 Lamberton street, Trenton, N. J. Owners, Princeton Township School, Princeton Borough, N. J. Brick and stone, 1 story and basement, 8 rooms. Plans about completed. Owner will be ready for bids in about ten days.

Bakery (add.), Pennington avenue and Monroe street, Trenton, \$6,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton. Owner, Robert C. Kolb, Willow st., Trenton, N. J. Brick, 2 stories, 39x100 feet, slag roof, electric lighting, Lupton sash. Plans in progress.

Engine and Compressor House, New Brunswick avenue, Trenton, \$10,000. Engineer, E. H. Earnshaw, E. State street, Trenton, N. J. Owners, Public Service Elect. Co., E. State street, Trenton, N. J. Brick, 1 story, concrete floors, electric lighting. Contract awarded to J. H. Morris Co., Trenton, N. J.

Miscellaneous Construction News

Residence, Wilmington, Del., \$25,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick or stucco, 3 stories and basement, 45x60 feet, slate roof, vapor vacuum heating, electric lighting, tile work, hardwood floors, metal lath. Plans in progress.

Hotel (interior alts.), Wilmington, Del., \$2,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Hotel Cassidy, Wilmington, Del. Consists of general interior alterations. Plans in progress.

Garage, Wilmington, Del., \$25,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick (glow burning), 2 stories and basement, 60x80 feet, slag roof (gasoline storage system and elevators reserved), steam heating, electric lighting, rolled steel sash, concrete and wood floors. Plans in progress.

Factory (add.), Fifth and Monroe streets, Wilmington. Architect, private plans. Owners, Bond Bottle Sealing Co., Wilmington, Del. Brick, 5 stories, 67x75 feet, metal lath, elevators, fire doors. Plans completed. Owners will take sub-bids shortly.

Gun Shop, Washington, D. C. Architect, private plans. Owners, U. S. Govt., F. R. Harris, Chief of Bureau, Washington, D. C. Reinforced concrete, steel and hollow tile, 1 story, 50x12½ feet, composition and slag roof, rolled steel sash, fire doors. Low bidders, first, Connors Bros. Co., 64 W. Eighty-eighth street, New York City, no time; second, J. Henry Miller, Eutaw and Franklin streets, Baltimore.

time, 370 days; third, F. W. Mark Const. Co., Pinnacle Building, Philadelphia, time, 275 days.

Apartment House, Ninth and Shipley sts., Wilmington, Del. Owners, W. N. Grambal, Wilmington, Del. Architects, Hope & Carlson, Ford Building, Wilmington, Del. Brick, 4 stories, slag roof, hot water heating, electric lighting, wood floors, metal lath. Architects taking bids, due April 14. J. E. Healey & Son and W. D. Haddock & Co., both of Wilmington, Del., are figuring.

Office Building, York Lynne, Del. Architects, Brown & Whiteside, Dupon Building, Wilmington, Del. Owners, National Fibre & Insulation Co., York Lynne, Del. Brick, 1 story, 40x60 feet, slag roof, steam heating, electric lighting, hollow metal sash, metal lath. Owners taking bids, due April 18th. J. E. Healey & Son, and W. D. Haddock & Co., both of Wilmington, Del., are figuring.

Store and Office Building, Syracuse, N. Y. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Fayette Realty Corporation, Syracuse, N. Y. Brick, 3 stories, 66x62 feet, irregular. Plans in progress. Too early for details.

Gardens, etc., Wilmington, Del., \$7,000. Architect, Wm. L. Wayne, Jr., 311 S. Hicks street, Philadelphia. Owners, A. Felix Dupont, Wilmington, Del. Consists of sunken gardens, concrete pools, pergolas, and tennis courts. Contract awarded to E. R. Hall & Bro., 34 South Seventeenth street, Philadelphia.

Store Building, 336 North Charles street, Baltimore. Architects, Baldwin & Pennington, 330 North Charles street, Baltimore. Owner, Thomas O'Neill, care of Pierre C. Dugan, 16 East Lexington street, Baltimore. Brick, 2 stories, slag or tin roof, steam heating, electric lighting, tile work, plumbing, painting and plastering. Plans in progress.

Naval Hospital (alts.), Annapolis, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Consists of alterations, metal lath, plastering, painting, heating, plumbing, electric wiring, tile work, hardware. Owners taking bids, due April 24th. Singer Pentz Co., Equitable Building, Baltimore, are figuring.

Residences (16), 2513-43 East Biddle street, Baltimore, \$20,000. Architect, Joseph F. Hirt, care of owner. Owner, Peter Grogan Estate, Preston street and Milton avenue, Baltimore. Brick, 2 stories, slag or tin roof. Owner taking sub-bids.

Residences (8), Keyworth avenue and Springhill avenue, near Reisterstown Road, Baltimore, \$25,000. Architect, Louis Piacus, Equitable Building, Baltimore. Owners, Acme Building Co., 517-A Equitable Building, Baltimore. Brick, 2 stories, 21x34 feet, slag roof, electric lighting. Owners taking sub-bids.

Maryland Contracts Awarded

Barn, Singery, Md. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owner, name withheld. Stone, 2 stories, 36x100 feet, slate roof, concrete and wood floors, electric lighting. Contract awarded to Mr. Stricklin, Elkton, Md.

Bank Building (alts. and add.), York Road and Homeland avenue, Baltimore. Architects, Sparklin & Chids, Law Building, Baltimore. Owners, Bank of Gowanstown, on premises. Slag roof, electric lighting, plumbing. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore.

Factory, Salisbury, Md. Architects, Owens & Sisco, Continental Building, Baltimore. Owners, Jackson, Gutnam & Co., Salisbury, Md. Brick, 2 stories, 50x27½ feet and 100x40 feet, slag roof, concrete work (heating, plumbing and electric wiring reserved). Contract awarded to W. E. Booth, Salisbury, Md.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 13, 1917.—Sealed proposals will be opened in this office at 3 p. m., May 25, 1917, for the construction of the United States post office at Washington Court House, Ohio. Drawings and specifications may be obtained from the custodian of the site at Washington Court House, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

MARYLAND

Construction News

Powder Dry Houses (3), Indian Head, Md. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Brick, concrete and steel, 1 story, corrugated iron roof. Owners ready for bids, due April 23rd, at 11 A. M.

Residence, Suffolk street, Baltimore, Md., \$4,000. Architect, M. R. Rhoads, Chambersburg, Pa. Owner, Rev. B. H. Melton, 407

Breton Place, Baltimore, Md. Frame, 2½ stories, slate or shingle roof, electric lighting. Plans about completed.

Office Building, 218 St. Paul street, Baltimore, Md. Architect, Herbert G. Crisp, Calvert Building, Baltimore. Owner, J. Charles Lintthicum & Bro., 217-19 St. Paul street, Baltimore. Brick, 4 stories, tin or slag roof, heating, electric lighting. Sweetser Lintthicum, 217-19 St. Paul street, is taking sub-bids.

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO.
Tasker Street Wharf, Delaware River, Philadelphia.

(Continued from page 256.)

or any subsequent offense shall be sentenced to pay a fine of not less than two hundred dollars nor more than five hundred dollars or to undergo an imprisonment in the county jail of not more than one year, either or both, at the discretion of the court.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

Pursuant to its policy of rounding out the structural steel business, the Bethlehem Steel Company has decided to build an 18-inch and 12-inch mill to augment the structural shapes rolled on the Bethlehem shape mill and the 28-inch structural mill.

The cost of the extension and improvements outlined above will be in the neighborhood of \$2,500,000.

J. Ernest Richards has been elected president of the American Pipe and Construction Company, succeeding Joseph S. Keen, Jr., who has resigned, George M. Bunting also resigning as vice-president.

The J. G. Brill Company has unfilled orders amounting to nearly \$4,000,000. Last February unfilled orders amounted to \$4,765,000. Work on export orders has been nearly completed and domestic business is expected to make up the bulk of the company's business this year.

ANCIENT SKYSCRAPERS.

In the days of Solomon there were buildings ten stories high; one rabbi tells of climbing 100 feet to his room; Herodotus says there were houses in Babylon four stories high, and Greek historians report many houses in ancient Tyre ten stories high. Athens had a building law limiting the height of buildings for residences to ten stories.

About the year 325 A. D., when Constantine the Roman Emperor, determined to establish his capital on the Golden Horn, he built a wall across the peninsula as the limits of his city and the dividing line between city and country taxes. Speculators rushed in and bought up land, raising real estate prices over 300 per cent. within a year.

High buildings were the logical outcome of this condition, and the capitalists sent to

Rome for architects who could design higher buildings, with the result that in ten years the new capital rivaled Rome in this regard.

Constantine, finding the view of the city and bay obstructed by these higher structures before he had completed his palace, says an exchange, issued an edict forbidding buildings more than 100 feet high.

A wall went up from the speculators, but the tops of the buildings had to come off, and it is recorded that one block lost the four stories, which would indicate that there were buildings from 125 feet to 135 feet.

It is recited that one Apothagos built a row of houses between the royal palace and the sea. They were of stone and brick as required by law and within the required limits of 100 feet, but on top of this he built frame structures of three stories. The royal "inspector of buildings?" ordered these frame superstructures to be removed, but Apothagos, claiming it was only a temporary structure for housing his workmen while they completed the building, went into court with it. After ten years of litigation, the superstructures were torn down, but all this time royalty was much offended by the buildings standing between it and the sea.

THE THINKER.

Back of the beating hammer
By which the steel is wrought,
Back of the workshop's clamor
The seeker may find the Thought;
The thought that is ever Master
Of iron and steam and steel,
That rises above disaster
And tramples it under heel.

The drudge may fret and tinker,
Or labor with lusty blows,
But back of him stands the Thinker,
The clear-eyed man who knows;
For into each plough or sabre,
Each piece and part and whole,
Must go the brains of labor,
Which gives the work a soul.

Back of the motor's humming,
Back of the bells that sing,
Back of the hammer's drumming,
Back of the cranes that swing,
There is the Eye which scans them,
Watching through stress and strain,
There is the Mind which plans them—
Back of the brawn, the Brain.

Might of the roaring boiler,
Force of the engine's thrust,
Strength of the sweating toiler,
Greatly in these we trust.
But back of them stands the schemer,
The Thinker who drives things through,
Back of the job, the Dreamer
Who's making the dream come true.

VIRTUE OF WALL BOARD IN ITS MANY USES.

Combines the Labor and Material of Lath and Plaster Without Dirt and Trouble.

In connection with the interior finish of a building it is well to consider the advantages offered by wall boards in place of the regular lath and plaster. Because of the dirt and inconvenience of plaster work, and also because it requires more or less favorable weather conditions in which to dry out, manufacturers have investigated numerous other materials to take its place. Among these are plaster board, composition ceilings and various combinations of wood fiber, paper stock, asphaltum, asbestos and felt.

The advantages claimed for these wall boards are that they combine the labor and material of lathing and plastering, that they can be put up regardless of weather conditions, which speeds construction, especially during the winter months, that they are fire-resistant, nonconductors and sound-deadeners, and skilled mechanics are not required to execute a good job, as in the case of plaster work. Wall paper, paint, burlap or any of the regular forms of decoration may be applied to them, the same as for plaster, and the more reliable brands are guaranteed not to warp, buckle or deteriorate with age.

These materials are especially desirable for bungalows, garages, frame structures, temporary offices and farm buildings, though they are also used in many of the largest stores, hotels and institutions. They are usually made in sheets thirty-two and forty-eight inches wide, to take the width of two or three studs spaced on sixteen-inch centers, and any length up to about 120 inches. They are cut with an ordinary saw, knife or chisel, and are easy to handle because of their flexibility. Most of them have a thickness of three-sixteenths of an inch, and about the same rigidity as wood. The average cost per square foot is about the same as lumber, which represents a considerable saving over lath and plaster.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

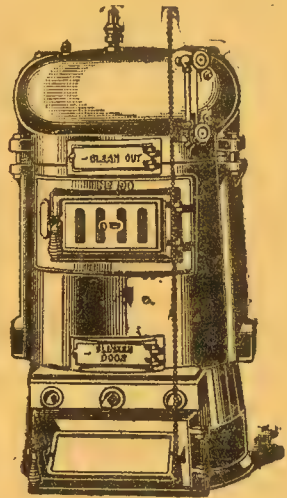
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Reference Directory for Architects, Builders and Owners

- Artesian Wells.**
 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
 Ridpath & Potter Co., Bourse Bldg., Phila.
 John B. Rulon, 1355 Colwyn st., Phila.
- Artists' and Architects' Supplies.**
 Chas. H. Robbins, 125 S. 11th st., Phila.
 Warren-Knight Co., 136 N. 12th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Blue Prints.**
 Chas. H. Robbins, 125 S. 11th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Blue Print Paper.**
 Chas. H. Robbins, 125 S. 11th st., Phila.
- Brick (Face, Etc.).**
 O. W. Ketcham, Builders' Exchange, Phila.
- Brick Renovating.**
 Adolph Christensen, 1433 Brown st., Phila.
- Builders.**
 Graham-Campion Co., Heed Bldg., Phila.
 Hogg Construction Co., Inc.,
 1634 Sansom st., Phila.
 Mitchell Bros., 2125 Race st., Phila.
 Pomeroy Const. Co., 1609 Ranstead st., Phila.
- Builders' Supplies.**
 P. H. Fairlamb Co., 115 S. 30th st., Phila.
 David France Co.,
 Tasker st. wharf, Delaware River, Phila.
- Cement.**
 P. H. Fairlamb Co., 115 S. 30th st., Phila.
 David France Co.,
 Tasker st. wharf, Delaware River, Phila.
 Samuel H. French & Co.,
 4th and Callowhill sts., Phila.
- Lehigh Portland Cement Co., Penna. Bldg., Phila.**
- Cement Colors.**
 Samuel H. French & Co., 4th and Callowhill sts.
- Columns (Metal).**
 Pearce Fireproof Co., 1345 Arch st., Phila.
- Composition Flooring.**
 Philadelphia Mineral Flooring Co.,
 5632 Summer st., Phila.
- The Marbleoid Co., Pennsylvania Bldg., Phila.**
- Dampproofing.**
 The Barrett Co., New York City and Phila.
- Door Hangers.**
 Grant Pulley and Hardware Co.,
 3 W. 29th st., N. Y., & Land Title Bldg., Phila.
- Drawing Materials.**
 Charles H. Robbins, 125 S. 11th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Electrical Specialties.**
 Large-Dail Mfg. Co., 606 Cherry st., Phila.
- Electrical Construction.**
 Baird-Osterhout Construction Co.,
 1620 Chancellor st., Phila.
- Electric Lighting, Power and Appliances.**
 Philadelphia Electric Co.,
 10th and Chestnut sts., Phila.
- Elevators.**
 A. B. See Electric Elevator Co.,
 Land Title Bldg., Phila.
- Engineers' Supplies.**
 Charles H. Robbins, 125 S. 11th st., Phila.
 Warren-Knight Co., 136 N. 12th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Fences.**
 Anchor Post Iron Works,
 Real Estate Trust Bldg., Phila.
- Fire Doors.**
 Merchant & Evans Co.,
 2035 Washington ave., Phila.
- Fireproofing.**
 Consolidated Expanded Metal Co.,
 2200 Arch st., Phila.
 Pearce Fireproof Co., 1345 Arch st., Phila.
- Floor Plates.**
 Alan Wood Iron and Steel Co.,
 Widener Bldg., Phila.
- Furnaces.**
 Abram Cox Stove Co.,
 American and Dauphin sts., Phila.
- Furnaces and Ranges.**
 Borden Stove Co., 118 N. 2d st., Phila.
 Abram Cox Stove Co.,
 American and Dauphin sts., Phila.
 Henry M. Miller, 46-48-50 N. 2d st., Phila.
 Richardson and Boynton Co., 1342 Arch st., Phila.
- Galvanized Iron Paint.**
 American Chemical Paint Co., 1118 S. 11th st., Phila.
- Garage (Portable).**
 Service Equipment Co., Bourse Bldg., Phila.
- Gas and Gas Appliances.**
 United Gas Improvement Co.,
 Broad and Arch sts., Phila.
- Granite.**
 Holmesburg Granite Co.,
 Commercial Trust Bldg., Phila.
- Heating Contractors.**
 Bowers Bros. & Co., 1629 Ludlow st., Phila.
- Heating Boilers.**
 Richardson and Boynton Co., 1342 Arch st., Phila.
- Insurance.**
 Harris J. Latta, Penna. Bldg., Phila.
- Lumber.**
 Howard Ketcham, 3d and Girard ave., Phila.
 James E. Tague & Co.,
 10th and Columbia ave., Phila.
- Marble Mosaic.**
 Belfi Bros. & Co., 1923 Market st., Phila.
 Italian Marble Mosaic Co., 433 Spruce st., Phila.
- Metal Lath.**
 Consolidated Expanded Metal Co.,
 2200 Arch st., Phila.
 Pearce Fireproof Co., 1345 Arch st., Phila.
- Meters.**
 Philadelphia Meter Co.,
 Real Estate Trust Bldg., Phila.
- Mill Supplies.**
 The Fairbanks Co., 7th and Arch sts., Phila.
 Service Equipment Co., Bourse Bldg., Phila.
- Mortar Colors.**
 Samuel H. French & Co.,
 4th and Callowhill sts., Phila.
- Nurseries.**
 The Garden Nurseries, Narberth, Pa.
- Paint for Galvanized Iron.**
 American Chemical Paint Co., 1118 S. 11th st., Phila.
- Paints and Varnishes.**
 Felton, Sibley & Co., 136 N. 4th st., Phila.
 Samuel H. French & Co., 4th and Callowhill sts.
 Eugene E. Nice, 268 S. 2nd st., Phila.
- Pipe Fittings and Valves.**
 The Fairbanks Co., 7th and Arch sts., Phila.
- Plaster.**
 N. J. Pulp Plaster Co., Trenton, N. J.
- Plumbing Fixtures.**
 Fleck Bros. Co., 44 N. 5th st., Phila.
 James A. Vogel Co., Wilmington, Del.
- Preservatives (Wood and Concrete).**
 The Barrett Co., New York City and Phila.
 F. E. Sagendorph, 24th and Walnut sts., Phila.
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- Scales.**
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 C. F. Shellenberger, Builders' Exchange, Phila.
- Sewage Disposal.**
 Harrison, Mertz & Emilen, Inc.,
 Commercial Trust Bldg., Phila.
- Soundings.**
 Artesian Well Drilling Co.,
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 Ridpath & Potter Co., Bourse Bldg., Phila.
 John B. Rulon, 1355 Colwyn st., Phila.
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 Merchant & Evans Co.,
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- Structural Engineer.**
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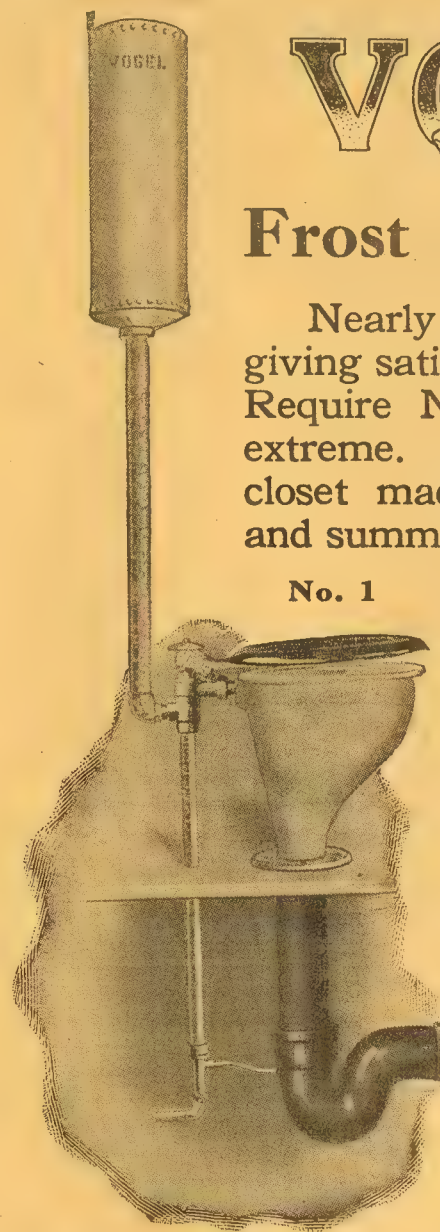
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Builders' Guide

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Vol. XXXII., No. 17
April 25, 1917

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CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

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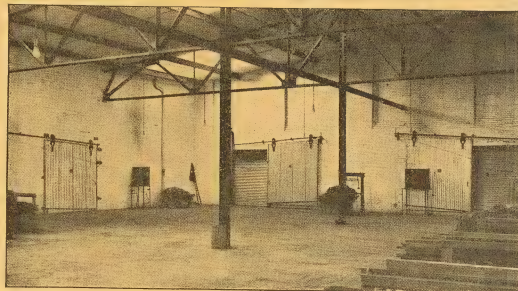
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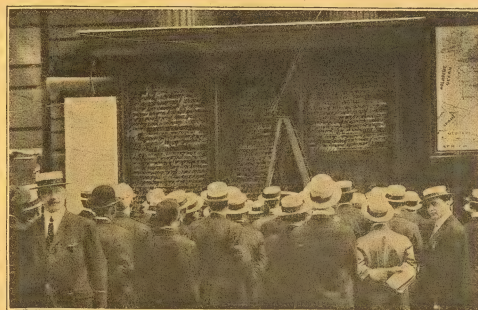
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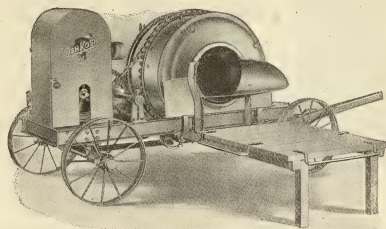
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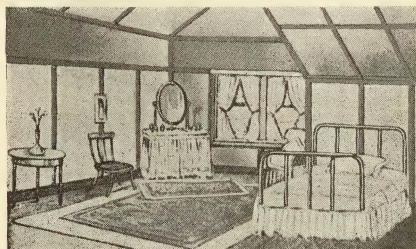
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Where all information, pertaining to building materials and appliances, will be given.

The Weekly Luncheons of Exchange Members are given every Thursday at 12.30 in their own Dining Room, where good speakers and good fellowship abound.

This makes friends and business. If not a regular attendant, become one.



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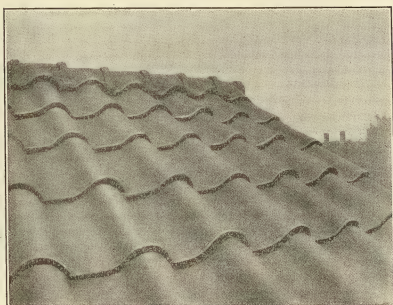


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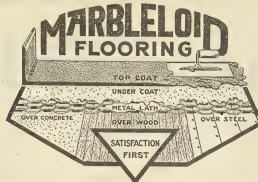
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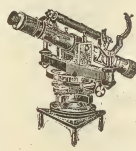
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Convertible Wye Level

A very reliable instrument for Archi-
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12-inch achromatic telescope, cross hairs, sun-
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 17

PHILADELPHIA
April 25, 1917



As The Editor Sees It



At the regular weekly luncheon at the Philadelphia Master Builders' Exchange the other day Major J. C. Baker, United States Engineer, urged in an address the enlistment in a regiment of engineers which is to be raised in this city, of builders, architects and building material men.

Under date of February 21, President Mauran, of the American Institute of Architects, addressed a letter to President Wilson pointing out special fields of service in which, by virtue of his training, the architect would be of help to his country in time of war.

President Mauran's letter is as follows:

ST. LOUIS, MISSOURI, February 21, 1917.
THE PRESIDENT,

The White House,
Washington, D. C.

Dear Mr. President: At the time when the Engineering Societies tendered to the Government of the United States, through you, their service in investigating Industrial Preparedness, the American Institute of Architects shared the impulse to place its resources at the country's service.

Rather than act, however, on the impulse in offering indeterminate services, we have postponed our offer until investigation revealed a tangible field of effort for which our special training peculiarly adapts us.

In enclosing herewith a copy of the Report made by the Special Committee charged with the investigation which closes with the recommendation that the President of the Institute be authorized to offer the services of the Institute to the President of the United States, and in extending that offer I beg to quote from the Report the following suggestive paragraph:

"A member of the American Institute has for more than a year been in charge

of the design and construction of all military hospitals in France, from the temporary unit near the battle-front to the permanent hospital in the rear. Other members, of the Institute have made themselves invaluable at the volunteer encampments at Plattsburg and elsewhere in this country, where their special training has peculiarly fitted them for the planning of camp-sites, sanitation, etc., and for reconnaissance work, topographical sketching and map-making."

While awaiting your pleasure the Institute will proceed to form a permanent Central Committee, which will have authority to organize subcommittees among the forty Chapters throughout the country.

Very respectfully,

(Signed) JOHN LAWRENCE MAURAN,
President.

* * *

IN the same number of the *Journal of the American Institute of Architects*, to which we are indebted for this letter, there appears a very interesting letter from Mr. Burk Fenner, architect, detailing his experience at Plattsburg.

From this letter we quote the following:

Military surveying is done by pacing and compass bearings primarily. I am not going into intersection and resection, contouring, slopes, clinometer and slope-board work, but you start with a sketch-board in one hand, a compass in the other, a pencil between your teeth, and a scale any place. I shall never forget when I was first dropped in a field with hills, ravines, a stream running through it with patches of cultivated fields and a winding road at one side, and my Captain said, "I'll send for you at four; 5 per cent. accuracy will do." When I remarked that I could do more accurate

work with instruments and longer time he replied, "In war, 100 per cent. accuracy and two hours late and we're all dead. Go to it."

Any architect or draughtsman should be able, after some practice, to make road and position sketches; it takes, of course, some little time to learn all military indications, and what is of great importance about visibility problems, arriving at positions without being seen, and occupying artillery positions defiladed from the enemy, all from observance of the contour lines on maps. However, to proceed to my work, I managed to successfully lay out the camps, though attending drills, and company work as far as possible. I had not a single evening or Sunday free as the others did. Owing, I suppose, to my familiarity with the camp-sites, I was then relieved from my company and made First Sergeant in charge of headquarters, war college, field artillery, hospitals and band. I was ordered to go to Quartermaster stores and draw tentage, had one hundred and one things charged to me, and was given two squads of regulars, and four war-college negroes as a command, and four 1½ ton motor-trucks.

* * *

WRITING generally on the subject of the possibilities that exist in the military life for the man with architectural training Mr. Fenner remarks:

Now as to what an architect can do for his country: First of all his training should give him proficiency in two particular things; military topography, which is of the utmost importance in reconnaissance, and outpost work. Geological Surveys are practically 1 inch to the mile. We shall always need innumerable sketches 3 inches to the mile or greater, and need them every day as we proceed or fall back. The sketches I

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.

125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086 KEYSTONE PHONE, MAIN 497

**BLUE
PRINTS**

made were 1 inch equals 100 yards.

The second branch is engineering, which includes buildings, barracks, warehouses, earth and concrete works, and lines of communication. The other branch—field-works—includes demolitions. This takes in field defences, bridges, clearances, and pontoon work, all of which is relevant to our profession. A practical problem to be solved on the ground. That is our every-day work, is it not? Instead of making plans for circulation, we must block it, and find vistas for our fire but not for that of the enemy.

One of the greatest assets the architect has in war is imagination. It is laid down by the authorities that "War is an art and not a science." Tactics is logic, tempered with imagination. Strategy is imagination tempered with common-sense. I believe no profession develops these qualities as does ours. Who were the great military engineers of history? Michael Angelo, Leonardo da Vinci, Benvenuto Cellini, and many other of the world's great architects.

It will be seen that the architect has the adaptability to make himself a very important factor in the military scheme of things. And if the war, now under way, should develop into the long and tedious struggle that some of the military experts predict, we have no doubt that new fields of military usefulness will suggest themselves, fields in which the

trained capabilities of the practical architect will enable him to be of particular and unique service to his country.

That the builder and the material man will find also a place of importance in the organization of big military offensives no one with even the most rudimentary knowledge of what modern warfare entails may presume to doubt. Not that it is to be expected that any wholesale transfer of the civil talent in the lines named may be made or is indeed contemplated.

AS President Wilson, with his usual sanity of view has pointed out, men may in many instances be of as vital help to the government in prosecuting the routine and necessary tasks at home as in the first-line trenches.

We simply essay to point out in this little hit-and-miss chat on the subject that granted the necessary degree of patriotic fervor and the adventurous spirit, the architect, the builder and the material man may prove of very real and exceptional value in the military organization.

It may be of some interest to note in this connection that the President of the Royal Institute of British Architects, in his recent annual address referred to the failure of the British government properly to utilize the services of the architectural profession in Great Britain.

New York, and the Executive Mansion at Harrisburg.

The annual report of the Bureau of Buildings of Manhattan Borough shows that New York fairly outdid itself in the matter of building last year. Plans filed for 1916 provided for the expenditure of 82 per cent. more capital than the preceding year. The total for 1916 was \$134,078,044, about \$20,000,000 of which was for remodeled buildings. The average cost of a building in Manhattan Borough in 1916 was \$203,350, as against \$132,213 in 1915.

Warren Webster & Co., Camden, N. J., has elected Frank H. Stevens a director of the company. Mr. Stevens has been assistant treasurer and managing buyer of the company for a number of years.

American Radiator Company's Berlin branch, known as the National Radiator Gesellschaft, has been notified by the German authorities that August Hennig, who was sent to Berlin after the European war started, to fill a vacancy on the Berlin staff, caused by the mobilization of the German employees, will not be allowed to leave Germany during the course of the war.

The Philadelphia Chamber of Commerce has recorded its opposition to House Bill 922 now before the State Legislature, which proposes an increase in the pilotage charges for the port of Philadelphia. The Chamber has also protested against the passage of House Bill 142, which provides for the examination, licensure and registration of persons, co-partnerships, associations or corporations engaged in the business of electrical construction in cities of the second and third class.

These protests have been forwarded to Governor Brumbaugh, to Lieutenant-Governor McClain, as President of the Senate, and to Speaker Baldwin, of the House of Representatives, as well as to Representative Frederick J. Beyer, of Philadelphia, chairman of the House Committee on Judiciary General. The protest against the pilotage charge bill points out that the ten per cent. increase proposed is discriminatory against the port of Philadelphia in that it would make the rates for pilotage higher than those charged for similar service at all other ports along the Atlantic Coast.

recently formed as a local branch of the World's Salesmanship Congress, which held its annual convention recently. 250 salesmen in Chicago have already joined the club.

Harrison W. Craver, chief librarian of the Carnegie Library of Pittsburgh since 1908, has tendered his resignation to accept a position as director of the library of the United Engineering Societies of New York. The United Engineering Societies' library is now believed to be the largest engineering library in the world, with approximately 150,000 volumes on technological subjects on its shelves.

F. A. Clegg, president of F. A. Clegg & Co., Louisville, Ky., heating and ventilating engineers and contractors, has been elected treasurer of the Louisville Builders' Exchange.

Samuel Huckel, Jr., of the architectural firm of Watson & Huckel, 1211 Walnut street, died at the University Hospital. He had been ill for several months. Mr. Huckel was 59 years old. Mr. Huckel designed the Manufacturers' Club Building, the Odd Fellows' Temple, the former Grand Central Station in

Atlantic Radiator Company, Huntington, Pa., at its recent annual meeting in Wilmington, elected the following directors: Richard C. Schofer, Joseph Baneroft, E. M. C. Africa, A. C. Stein and Howard T. Gates. Richard C. Schwoerer was re-elected president and treasurer; Howard T. Gates was elected vice-president and secretary and was also appointed general manager. Mr. Gates reported a successful year and was given a rising vote of thanks for his management of the business.

EDITORIAL NOTES

George R. Stearns, of the architectural and engineering firm of Stearns & Castor, recently dissolved, announces that a new partnership has been formed under the name of Stearns, Woodnutt & Schmoll, with offices in the Stephen Girard Building, Philadelphia and 150 West Fourth street, Williamsport, Pa.

The second competition for figures for the decoration of the Plainfield (N. J.) Municipal Building will be held by the Joint Committee of the Beaux-Arts Institute of Design and the National Sculpture Society. Information may be obtained from the Beaux-Arts Institute of Design, 257 West Fifty-seventh street, New York City.

New Jersey's Zoning Bill is awaiting the signature of the Governor, having passed both the Senate and the Assembly. The proposed law will place all future building operations in cities of the first class under municipal control.

W. H. Hill, vice-president of the American Radiator Company, Chicago, Ill., was elected president of the Chicago Salesmanship Club,

COLORING CONCRETE

Monotony of concrete construction may often be diversified and more ornamental effects easily secured by the application of simple pigments to the cement before mixing. Permanency is an important consideration for this work, and a number of the best colors suitable for this character of work were recently enumerated in a bulletin on cement stucco issued by the Association of Portland Cement Manufacturers. The quantities recommended will give a light shade of the desired color. Where a medium dark shade is desirable double the quantity of pigment should be used. The coloring matter should be thoroughly mixed with the sand until a

uniform color results. This is then mixed with the cement. Blacks are usually safe colors, but it is better to avoid experiments with cheap and inferior colors. The carbon blacks are preferable to lampblacks, because they do not have the same tendency to float to the top during mixing. Ultramarine blue, if of good quality, will hold its color for a number of years, and generally possesses the virtue of fading out evenly. This color cannot be classed as permanent as can black, brown and ochre. Green is an unsatisfactory color to experiment with. Commercially, there is no green cement color on the market that will not fade when mixed with cement and exposed to light and weather.

Colors required.

Grays, blue-black and black.....
Blue shade
Brownish-red to dull brick red.....
Bright red to vermilion.....
Red sandstone to purplish-red.....
Brown to reddish-brown.....
Buff, colonial tint, and yellow.....

Pigments used.

Germantown Lambblack ½
Carbon Black ½
Black Oxide or Manganese..... 1
Ultramarine Blue 5
Red Oxide or Iron 5
Mineral Turkey Red..... 5
Indian Red 5
Metallic Brown (Oxide)..... 5
Yellow Ochre

Pound of
Pigment for
Each Bag of
Cement.

BUILDING MATERIAL FOR EUROPE.

According to a financial authority, one reason for the present high cost of building materials in all parts of the country is ascribed to the options being taken on supplies in gigantic quantities by companies who plan to ship buildings by the millions of dollars' worth into Europe as soon as the war stops.

At the present time some of the companies are well enough equipped to take orders for factory buildings as large as 90 by 300 feet, and to supply in the same shipment enough dwellings to house the necessary hands to operate the mills. Inquiries have been sent here from England and Russia and France in the last month, seeking to ascertain the per cubic foot cost of American standard shaped industrial buildings and quickly assembled houses for the employees.

According to specifications received from France, "prices must include complete mill construction ready for setting machinery on floors within thirty days from arrival of material on site, quotations to be free on board, New York, and cover purchaser into the summer of 1918."

One New York company has already made shipments of houses of this sort into South America, and is taking on capacity to meet the requirements of an export business in all kinds of basic building materials which seem sure to develop upon the closing of hostilities. —"Stone," New York.

WINDOWS.

By Dr. E. Vernon Hill.

In this paper Dr. Hill reviewed the history of window design and construction and showed that windows were in use in ancient Egypt, at least on the second floors of buildings, but without glass or other protection. That they were also used by the Greeks and Romans is known to be a fact. Instead of glass it was customary to use pieces of colored glass. Dr. Hill then took up modern window construction from the standpoints of first cost, care and upkeep, loss of wall space, admission of flies and other insects, admission of dirt, weakening of walls and injury to building, entrance for burglars, increase of heat loss, interference with mechanical ventilation, increased liability to fire and fire panic and nuisance from noise. Under the last heading he showed that in office buildings in the congested districts of large cities, the noise from electric cars, passing trucks, etc., entirely prevent the use of windows for ventilation on the first, second or even third floors. This is also a serious objection in the cases of hospitals and schools. Dr. Hill spoke at length of the window requirements of factories and workshops, this part of the paper being accompanied by illustrations of typical designs. He stated that pending further development of artificial illumination, natural light for these buildings is to be preferred. He predicted that in the years to come all work-rooms, salesrooms and rooms open to the pub-

lic below the second story above grade would be compelled to be properly ventilated and the air washed and purified.

SOME MORE ADVERTISING "DONT'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

SURE.

Stick to your work, forget the mob.

Avoid the discontented throng;

For, if you're always on the job

Success is sure to come along.

One way to escape the income tax is to quit advertising and do less business.

Milton W. Franklin has resigned his position as president of the C. and C. Electric Company, New York, to accept an engagement with E. F. Houghton & Co., Philadelphia, as consulting engineer for the Houghton line. This company not only manufactures the well-known Houghton line of heating specialties, including the Houghton American system of heat control, but is also an extensive manufacturer of lubricating and other oils. Mr. Franklin's activities will cover all of the company's products. He will make his headquarters at the company's plant in Philadelphia.

BUILDERS' GUIDE

FORMERLY

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and Builders' Guide

PUBLISHED WEEKLY

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CLEANING UP THE NATION

An Effort to Lessen Hazard by Extending This Campaign to Every Section.

Letters are being written to the Governors and Fire Marshals of the different States, and to the Mayors, Fire Chiefs, Health Officers and Chambers of Commerce in several hundred of the leading American cities, urging that the first week in May (which this year begins upon April 30th), be designated and observed generally as a spring "Clean-up Week."

This is a time of national crisis, when every effort to reduce public hazard becomes a patriotic duty. However, such efforts pay abundant dividends even under normal conditions. For example, Mr. J. J. Conway, chairman of Cincinnati's "Clean-up and Paint Up" campaign, writes to the National Board of Fire Underwriters:

"Cincinnati's clean-up campaigns have been of great value to the people of Cincinnati. Prior to the first campaign three years ago, the fire loss totaled \$1,340,000, and this was reduced to \$370,537 in 1915, and to approximately the same figure in 1916."

Similarly, the City of Decatur, Illinois, reports a fire loss of \$164,010 for 1915, before the institution of the local clean-up campaign, and of only \$63,457 for 1916, following this effort. As one of the features of Decatur's campaign, more than one hundred and fifty merchants provided themselves with metal receptacles for the storage of waste paper and rubbish.

The Chamber of Commerce of Rochester, New York, states that the city's 1916 fire loss showed a reduction of 40 per cent. over the figures for 1915, and credits a large part of this to the result of a clean-up campaign. Mayors, Fire Chiefs, and Health Officers in a number of cities, as well as the Fire Marshals of Pennsylvania, Illinois, Michigan, Ohio, Wisconsin, Minnesota and several other States, are already moving actively in the matter. On the other hand, the greater part of the United States has not yet awakened to this necessity.

Spring is a time of peculiar fire menace because of the accumulated litter of the winter months. The Georgia Fire Prevention Society has published statistics showing that all of the conflagrations in the Southern cities during the past quarter of a century have occurred between February 25th and May 3rd, and it is well known that the \$350,000,000 conflagration in San Francisco was in the month of April. While this latter was caused by an earthquake, most of the loss was due to the bad condition of the city. If a spring "Clean-up" campaign could be established as a national institution, for the first week in May of each year, it would save millions of dollars of the national wealth, which is annually destroyed through unnecessary fires. It also would be a most important health measure, since dirt and debris breed disease as well as conflagration.

One word of special precaution is necessary; this refers to the storage of waste paper. Following the suggestion of the Federal Government that people should save waste paper as a means of meeting the serious shortage in paper stock, thousands of school children began to collect paper and to store it in school basements, thereby creating a hazard. It is desirable that waste paper should be conserved, but a safe place of storage should be provided. Such storage should never take place in schools or dwellings. It is well to remember that paper is less likely to burn when tightly folded and piled than when thrown into a loose heap. It should be disposed of as frequently as possible so that large quantities may not accumulate. This is another case in which individual carelessness is the greatest fire hazard.

GENERAL ELECTRIC SPREADS OUT

It is a good sign when one of the largest manufacturing companies in the country, having no plant in Philadelphia, decides to transfer a portion of it to this city—a good sign for Philadelphia and for the company as well. This action was recently taken by the General Electric Company, of Schenectady, New York, who heretofore have had only offices and warehouses in Philadelphia and did no manufacturing here.

Takes Over New Building.

The company is now completing the building situated on the block bounded by Seventh, Willow, Marshall and Noble streets. This block originally contained thirty-eight residences, and has a frontage of 175 feet on Willow and Noble streets, 263 feet on Seventh street and 281 feet on Marshall street, and covers a ground area of 48,000 square feet.

Used for Manufacturing.

The new building, which covers nearly half of the entire block, and which is now rapidly approaching completion, is one of the "day-light throughout" type, and will contain 125,000 square feet of floor area. It will be strictly modern in every detail, being of heavy concrete construction, six stories high, sprinkled throughout, and with passenger and freight elevators sufficient to meet the demands. The company will have about 1,200 employees in this building and will use it exclusively as a manufacturing plant.

To Double Size of Plant.

It is proposed that shortly after the southern half of this block is improved, work will be started on the northern half of the block for the erection of a similar improvement. The investment of the General Electric Company in this one block will represent upwards of a million dollars, and the best working facilities for employees will be possible on account of the modern well-lighted and well-equipped plant.

Site Has Railroad Siding.

The development of this block is another illustration of the importance of the railroad

siding. This location was selected on account of the railroad facilities, and provisions have been made for a private siding, which will accommodate four or five cars at one time. Arrangements have been made for a siding to be put exclusively on the General Electric Company ground, thus making it strictly private.

AMERICAN-MADE MASTIC TAKING PLACE OF IMPORTED PRODUCT.

"On account of the war" has become a household phrase in America. It is used to explain advances in the prices of commodities as well as our inability to get certain things at any price.

But it is an ill wind that blows nobody good, and one advantage of the situation has been the development of a number of industries that will hereafter be independent of foreign sources of supply. We have also found that custom or habit, rather than economic necessity, has been responsible for considerable foreign trade.

The truth of the latter statement is clearly shown by our former large importations of rock mastic. It required the present cessation of imports growing out of the war to demonstrate that we are not only able to produce mastic in large quantities, but of very superior quality. For a long time we imported from Germany—and in lesser quantities from Switzerland and Italy—many tons of rock mastic. But when importations suddenly ceased, architects and engineers found that the situation was really advantageous in so far as this particular material is concerned. They were at first concerned because mastic is used for so many purposes that to be deprived of it without being able to find a substitute would be a serious matter. But they know now that they cannot only get a more uniform material than the rock mastic, but that it has been available for some time. That this change in the attitude of architects and engineers is important is shown by the extensive use of the material. It goes into the floors of storage plants, abattoirs, breweries, hospitals, bakeries, railroad stations and shops. It is especially valuable as a waterproofing material, being used in subways, bridges, piers and tunnels. The manufacture and use of the American product are already standardized. More than 75,000 square feet were used in the New York Municipal Building.

A curious fact is that while it was apparent we had a superior product it is only recently that we discovered why it is better. Chemical research disclosed the fact that in the Trinidad lake asphalt, which is the bitumen used in the American-made mastic, nature had supplied exactly the percentage of fine material content or filler required to obtain the best results. Analyses show no variation, whereas in the case of rock asphalt the filler and bitumen content varies from fat to lean. The Trinidad mastic has been developed largely by the experts of one of our large companies.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Club House, 1809-17 Ranstead street, Philadelphia. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Musical Art Club, care L. Stauffer Oliver, chairman building committee, 102 South Seventeenth street, Philadelphia. Brick, steel and terra cotta, 2 stories, 50x62 feet, slag or composition roof (steam heating, electric work and plumbing reserved), hardwood and terrazzo floors, tile and marble work, metal lath. Architects taking bids, due April 28. H. E. Grau Co., 1707 Sansom st.; Pringle Borthwick, 8018 Germantown ave.; Warren, Moore & Co., Commercial Trust Building; F. L. Hoover & Sons, 1023 Cherry street; J. Sims Wilson Co., 1125 Brown street, are figuring.

Residence and Garage, Pelham road above Hortter street, Germantown. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, W. E. S. Dyer, Land Title Building, Philadelphia. Brick, 2½ stories, 25x74 feet; garage, 1 story, 29x27 feet, slate roof, hot water heating, electric lighting, oak and cement floors, metal lath. Owner has received bids.

Dry Dock Pumping Plants, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Concrete. Owners ready for bids, due May 14th at 11 A. M.

Bank Building (alt. and add.), Main and Levering streets, Manayunk, Philadelphia, \$50,000. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Manayunk National Bank, on premises. Granite (fireproof construction), 2 stories, addition, 20x68 feet, slag roof (vault reserved), steam heating, electric lighting, tile and marble work, bank fixtures, metal lath. Plans in progress.

Bank Building (alt.), southwest corner of Sydenham and Walnut streets, \$15,000. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Ridge Avenue Bank, Spring Garden and Ridge avenue, Philadelphia. Stone, brick and steel, 3 stories, 40x55 feet (steam heating, electric work, office fixtures and interior decorating reserved), hot air heating, "Marbleloid," cork, Linotile and cement floors, marble work, metal lath. E. J. Hedden, Finance Building, taking sub-bids.

Apartment House, Green street and Cheltenham avenue, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Everett Cummins, 37 East Washington lane, Germantown. Stone and brick, 4 stories, 90x160 feet, slag roof, steam heating, electric lighting, tile and marble work, hardwood, cement and pine floors. (1) elevator. Plans completed. Owner taking sub-bids.

Factory (add.), American and Columbia avenue, Philadelphia. Architects, Morris & Erskine, 1420 Chestnut street, Philadelphia. Owners, A. M. Collins Mfg. Co., 226 Columbia

avenue, Philadelphia. Brick, Fifth and sixth story addition, 55x40 feet, slag roof, maple floors (rolled steel sash reserved), fire escapes. Architects have received bids.

Packing Plant (alt. and add.), West Philadelphia Stock Yards, Thirtieth and Race sts. Architect, C. B. Comstock, 110 W. Fortieth st., New York City. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Brick, steel and reinforced concrete, 2 stories, 61x125 feet, asbestos, reinforced concrete and composition roof (elevators and electric work reserved), rolled steel sash, hollow metal skylights, reinforced concrete and brick floors, hollow tile, roof ventilators, metal window guards, waterproofing, iron stairs. Owners have received bids.

Primer and Detonator Dry House, Frankford Arsenal, Philadelphia, Pa. Architect, private plans. Owners, U. S. Government, Col. Geo. Montgomery, Frankford Arsenal, Philadelphia. Reinforced concrete, Gypsum block, 1 story, 50x24 feet, cement roof (heating, lighting and plumbing reserved), concrete and composition floors, waterproofing. Owners have received bids.

Residence (Sun Parlor add.), 2442 Bryn Mawr avenue, Philadelphia. Architect, private plans. Owner, Archie E. Hughes, on premises. Stone and brick, 1 story, 26x17 feet, slag roof, quarry tile floors, hot water heating, electric lighting, metal lath, metal weatherstrips, wire work. Owner has received bids.

Store Building, 812 North Broad street, Philadelphia. Architects, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, R. A. Heymann & Bro., Widener Building, Philadelphia. Stone and brick, 3 stories, 20x160 feet, slag roof, steam heating, electric lighting, tile work, pine floors (1) elevator. Plans in progress. Architect will take bids in a week.

Boiler House, Girard Point, Philadelphia, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Concrete, 1 story, 30x50 feet, slag roof, concrete floors, rolled steel sash. Plans in progress.

Garage, 3224 West Penn street Queen Lane Manor, Philadelphia. Architect, Lawrence Vissechor Boyd, Harrison Building, Philadelphia. Owner, Geo. C. Foedisch, on premises. Stone, 1 story, 22x22 feet, gasoline storage system, and hot water heating reserved), slate roof, cement floors, electric lighting. Architect has received bids.

Factory, Frankford, Philadelphia. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner, name withheld. Brick (slow burning), 2 stories, 40x120 feet, slag roof, cement and maple floors, fire escapes. Plans about completed. Architect will take sub-bids in a few days.

Church, Twenty-eighth and Lehigh avenue,

Philadelphia. Architects, Street & Stackhouse, 129 South Fifth street. Owners, North West Baptist Church, care of Rev. W. Dallas, 1425 North Eighteenth street. Stone, 1 story, 74x80 feet, slate roof, pine floors, electric lighting. Plans in progress. Architects ready for bids in a week.

Factory (add.), Snyder avenue and Water street. Architect, private plans. Owners, Publicker Ward Distilling Co., on premises. Brick and reinforced concrete, 2d and 3d story addition, 48x48 feet, slag roof, pine floors (heating and lighting reserved), hollow metal sash, metal window guards, wire work. Owners have received bids.

Stores (3) and Garage Building, 1929-35 N. Franklin street, Philadelphia. Architect, Franklin T. Uezzell, 147 North Third street, Philadelphia. Owner, Dr. C. J. Schneider, 1930 North Seventh street, Philadelphia. Brick and stone, 2 stories, 110x65 feet, slag roof (steam heating, electric lighting and plumbing reserved), metal skylights, fire doors, ventilators, metal store fronts, rolling steel doors, gasoline storage system, air pump. Architect has received bids.

Club House, Seventieth avenue and Lakeside avenue, Oak Lane, Philadelphia. Architect, William E. Groben, 6719 North Sixth street, Oak Lane, Philadelphia. Owners, Review Club of Oak Lane, Mrs. E. Clarence Miller, chairman building committee, Oak Lane, Philadelphia. Brick, 1 story and basement, 95x40 feet, slate roof, hot water heating, electric lighting, tile work, oak floors, hollow tile, roof ventilators, dampproofing. Architect taking bids, due April 26th. Specht & Sperry, Heed Building; Wills-Ludwick Co., 34 South Seventeenth street; Samuel F. McNeil, 953 East Cheltenham avenue; Wm. J. Gruhler Co., 219 E. High street, Germantown; Frank R. Hill, 6700 North Sixth street; P. A. Waltz, 6610 North Seventh street, Oak Lane; E. C. Durrell, 1713 North Twenty-fourth st., are figuring.

Store Building, southwest corner Fifteenth and Chestnut streets, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Bonwit, Teller & Co., Thirteenth and Chestnut streets, Philadelphia. Brick, stone, steel and concrete, 10 stories, 30x135 feet, slag roof, steam heating, electric lighting, tile and marble work, cement and pine floors, hollow tile, metal lath, (6) elevators, fire doors, store fixtures, safety treads. Plans completed. Architect ready for bids.

Warehouse, Delaware avenue and Water street, Philadelphia. Architect, private plans. Owners, Penna. Warehousing & Safe Deposit Co., 113 South Third street. Brick and reinforced concrete, 8 stories, 172x112 feet, slag roof (elevators, lighting and heating reserved), concrete and maple floors, tile work, metal lath, rolled steel skylights, fire and kalamein doors, iron stairs. Owners, care of

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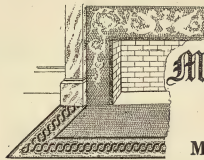
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M. E. Levering, treasurer, taking bids, due April 26th. H. E. Baton, Twelfth and Sansom streets; Cramp & Co., Denckla Building; Jacob Myers & Sons Co., Witherspoon Building, are figuring.

Office Building (int. alt.), 1219-23 Vine st., Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street. Owner, Claude S. Jarvis, 257 North Twelfth street, Philadelphia. Brick and reinforced concrete work, cement floors, electric lighting, Macite partitions, metal lath, kalamein doors, store and office fixtures. Architects taking bids. Lam Building Co., 1001 Wood street, is figuring.

Boller House and Connecting Bridge, Thirty-first and Jefferson streets, Philadelphia. Architect, Chas. H. Casper, 295 Chestnut st., Philadelphia. Owners, F. A. Poth & Sons, Inc., on premises. Brick, concrete and steel, 2 stories, 50x41 feet, slag roof, concrete floors, kalamein doors. Architect taking bids, due April 27th. John N. Gill & Co., Otis Building, are figuring.

Church and Sunday School, Haverford avenue and Robinson street. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners, Hope German Reformed Church, Edw. F. Wessler, 1324 N. Robinson street. Stone, 1 and 2 stories and basement, 94x75 feet, slate roof, pine and cement floors, vapor or steam heating, electric lighting. Architect taking bids, due May 3rd at noon. T. C. Trafford, 1613 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; Specht & Sperry, Heed Building; John V. Speth & Co., 1714



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Sansom street; Ketcham & McQuade, 1029 Brown street; Smith-Hardican Co., 1606 Cherry street; A. R. Raff Constructing Co., 1635 Brown street and P. Haibach Cont. Co., Twenty-sixth and Thompson streets, are figuring.

Shop and Studio (alt.), 1524 Locust street, Philadelphia, \$5,000. Architect, G. Wharton Churchman and E. J. Holmes, 1525 Locust st. Owner, Leroy Hemingway, 1615 Walnut st., Philadelphia. Brick, 3 stories (heating, electric work and interior decorating reserved), cement floors, tile and marble work, hollow metal sash and skylights, cement floors, metal lath, ornamental iron work. Architects have received bids.

Theatre (alt.), Eighth above Race street. Architect, D. Knickerbacker Boyd, Otis Building, Philadelphia. Owners, Central Market Street Co., Globe Theatre Building, Philadelphia. Stone front (plumbing, steam heating, electric work, ornamental plastering reserved), cement floors, metal lath, tile and marble work. Architect has received bids.

Church, Third and Tabor road, Philadelphia. Architects, Duhring, Okie & Ziegler, Bailey Building, Philadelphia. Owners, First Presbyterian Church of Olney, care of Rev. Wm. H. Wells, 222 Tabor road, Philadelphia. Stone, 1 and 2 stories and basement, 111x56 feet and 75x91 feet, slate roof and slag roof, maple and cement floors (electric work, plumbing and heating reserved), metal lath, rolled steel skylights, ornamental iron work. Architects have received bids.

Office Building (add.), Thirty-third and Arch streets, Philadelphia. Architects, Balingier & Perrot, Seventeenth and Arch streets, Philadelphia. Owner, Ed. M. Harris, 2214 Chestnut street, Philadelphia. Stone, brick, reinforced concrete, terra cotta, 3 stories add., 149x92 feet, slag roof (heating, lighting, plumbing and elevators reserved), concrete and pine floors, tile, marble, terrazzo work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, iron stairs, hollow tile, safety treads, roof ventilators, dampproofing, wire work, ornamental iron work. Architects taking bids, due April 26th. Irwin & Leighton, 126 North Twelfth street, are figuring (preliminary bid).

Store (alt.), 4323 Lancaster avenue, Philadelphia, \$2,000. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, Wm. S. Hitchner, on premises. Brick, alt. to first floor (electric lighting reserved), steam heating, hollow metal sash, pine floors. Plans completed. Architects ready for bids.

Residence, Germantown, Philadelphia. Architect, Lawrence. Visscher Boyd, Harrison Building, Philadelphia. Owner's name withheld. Brick and rough east, 2½ stories, 26x45 feet, slate roof, hardwood floors, tile work, metal lath. Architect taking bids, due April 30th at 10 A. M. Stokes Bros., 6723 Musgrave street; F. B. Davis, 240 North Sixteenth street; I. S. Dunkelberger, 71 East Herman street; Charles Johnson, 5701 Boyer street, and Sutton & Stephenson, 1317 Washington avenue, are figuring.

Hospital (add.), Eighth and Spruce streets, Philadelphia. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owners, Pennsylvania Hospital, on premises. Consists of

two porches, marble columns, marble balustrades and floors, brick work, ornamental iron and mill work. Architect taking bids, due April 30th at 10 A. M. R. C. Ballinger & Co., 218 South Thirteenth street; F. E. Wallace, 1220 Chancellor street, and Milton W. Young, Overbrook, Pa., are figuring.

Store Building, southwest corner of Piftooth and Chestnut streets, Philadelphia. Architect, Le Roy Rothschild, Bulletin Building, Philadelphia. Owner, Martin E. Greenhouse, 114 South Fifteenth street, Philadelphia. Lessees, Bonwit, Teller & Co., Thirtieth and Chestnut streets, Philadelphia. Brick, stone, terra cotta, reinforced concrete, 8 stories and basement, 79x138 feet (steam heat reserved), electric lighting, tile and marble work, fire and kalamein doors, hollow metal sash, maple floors, metal lath, 4 elevators, metal window guards, waterproofing and dampproofing, ornamental iron work. Architect taking bids, due May 5th. Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; H. E. Baton, Twelfth and Sansom streets; Turner Concrete Steel Co., 1713 Sansom street, are figuring.

Club House, 118-20 North Eighteenth street, Philadelphia. Associated architects selected. Frank E. Hahn and Max Hirschberg, 1112 Chestnut street, Philadelphia. Owners, American Federation of Musicians, Local No. 77, 249 North Sixth street, Adolph Hirschberg, president, 1533 North Natrona street. Brick, stone and steel, 4 stories, 60x132 feet. Plans in progress.

Fire Houses and Police Stations, various locations, Philadelphia. Architect, Chas. E. Oelschlagel, 1615 Walnut street, Philadelphia. Owner, City of Philadelphia, Department of Public Safety, Wm. H. Wilcox, Director, City Hall, Philadelphia. Brick, steel and terra cotta, 2 and 3 stories. Plans in progress.

Hall Building, 2823-29 Dauphin street, Philadelphia. Architect, not selected. Owners, Camp No. 478, P. O. S. of A., Thirty-first and Ridge avenue, Wm. S. Veltman, secretary, 600 Bullitt Building, Philadelphia. Brick, 3 stories. Work contemplated. Expect to build this summer.

Store and Residence, 628 South Sixty-second street, Philadelphia. Architect, Walter Thomas Mayo, 1701 Chestnut street, Philadelphia. Owner, Harry S. Friday, Sixty-first and Hazel avenue, Philadelphia. Brick and stone, 2 stories, 17x70 feet, tin, canvas and slate roof (lighting fixtures, plumbing and heating reserved), cement, oak and pine floors, electric lighting, tile and marble work, metal lath. Architect taking bids, due April 25th. Thos. C. Trafford, 1613 Sansom street; Gobert G. Ward, 633 North Sixty-third street; Jos. Scott, 3933 North Eighth street, and E. J. Kreitzburg, 1345 Arch street, are figuring.

Office Building (alt.), 316 Walnut street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, the Friends' Almshouse Est., 207 Walnut street, Philadelphia. Consists of new entrance and interior alterations, plastering, millwork, electric lighting, marble and terrazzo work. Architects taking bids, due as soon as possible. R. C. Ballinger & Co., 218 North Thirteenth st., are figuring (only bidders).

Garage (add.), Sedgley and Montgomery

avenues, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner's name withheld. Brick, 2 stories, 42x84 feet, slag roof, cement floors. Architects taking bids, due April 27th. Standard Const. Co., 1713 Sanson street, are figuring (only bidders).

Residences (72) and Garages, Larchwood avenue, Forty-sixth street and Osage avenue, West Philadelphia. Architect, private plans. Owner, Clarence R. Seigel, 4624 Larchwood avenue, Philadelphia. Brick, 3 stories, 18 and 22x60 feet, slag roof, hot water heating, electric lighting, tile work, oak floors. Owner taking sub-bids.

Shop and Office Building, Twenty-ninth and Clearfield streets, \$10,000. Architect, private plans. Owners, S. G. Matthews & Co., 916 N. Ninth street, Philadelphia. Brick, steel and corrugated iron, 1 story, 40x80 feet and 2 stories, 30x40 feet, slag roof, vapor vacuum heating, electric lighting, cement floors, metal lath, rolled steel sash. Contract awarded to

Harry Gill, Jr., 2515 Germantown avenue.

Stores (3) and Garage, Broad and Allegheny avenue, Philadelphia, \$13,000. Architect, private plans. Owners, Crumble Bros., on premises. Brick, 1 story, 55x140 feet, slag roof, cement and pine floors, steam heating, electric lighting, marble work, metal lath, hollow metal skylights, roof ventilators. Contract awarded to Henry P. Schneider, 3713 Old York road.

Bank Building, Broad and Fairmount avenue, \$164,000. Architect, Philipp Merz, Pennsylvania Building, Philadelphia. Owners, Northwestern National Bank, Ridge and Girard avenues. Granite, marble and steel, 1 and 2 stories and basement, 90x62 feet, composition roof, steam heating, electric lighting, tile and marble work, hollow metal or bronze sash, fire and kalamela doors, bank fixtures, terrazzo, cork tile and cement floors, hollow tile, metal lath, metal window guards, waterproofing. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street.

phia. Owner, name withheld. Frame, 2 stories, 18x28 feet, shingle roof. Plans in progress.

Cottages (3) and Garage, Chestnut Hill, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Geo. D. Widener, Land Title Building, Philadelphia. Brick, stone and stucco, 2 stories, 42x36 feet, 53x38 feet, 40x43 feet; garage, 2 stories, 61x50 feet, shingle roofs, (gasoline storage system and lighting reserved), hot air heating, steam heating, tile work, hollow metal skylights, cement and pine floors, metal lath. Architect has received bids.

Residence, Penfield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John L. De Mar, 1827 North Thirty-first street, Philadelphia. Frame, 2½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting, tile work, hardwood floors. Architect has received bids.

Penn Cottage (alt. and add.) and Garage, Montgomery avenue and Wister road, Wynnewood, Pa. Architect, John L. Coney, Drexel Building, Philadelphia. Owner, Robert Tolland, 1213 Spruce street, Philadelphia. Stone, frame and plaster, 2 stories, addition, 20x24 feet, garage, 1½ stories, 20x23 feet, tin and shingle roof, oak and cement floors, metal lath, electric lighting, tile work, metal lath. Plans completed. B. J. Hedden, Finance Building, taking sub-bids.

Residence (alt. and add.), Mill Creek road, Ardmore, Pa. Architects, Magaziner & Potter 603 Chestnut street, Philadelphia. Owner, J. Howard Pew, Finance Building, Philadelphia. Stone and brick, 2½ stories, 32x24 feet, tin roof (heating and lighting fixtures reserved), oak and pine floors, electric lighting, tile work, wire work. Architect has received bids.

Residence, Chestnut road, Wyncote Manor, Montgomery County, Pa. Architect, W. Frisbey Smith, 1345 Arch street, Philadelphia. Owner, Herbert Simons, Land Title Building, Philadelphia. Stone and plaster, 3 stories, 72x42 feet, slate and tin roof, pine, oak and parquetry floors, hot water heating, electric lighting, tile and marble work, metal lath, wire work. Architect taking bids, due as soon as possible. W. John Stevens, Inc., Wyncote, Pa., and A. J. Heckman, Edgemoor, Pa.; F. L. Hoover & Son, 1023 Cherry street, are figuring.

Bungalow, Ridley Park, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, T. P. Ward, 226 Henderson avenue, Ridley Park, Pa. Stone, 1 story, 65x30 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architects taking bids, due April 26th. Pomeroy Const. Co., 1609 Ransstead street; John E. Kearney, 327 North Sixty-third street; J. Paul Emrey, North Wynnefield, Pa., and J. Howard Roberts, Lansdowne, Pa., are figuring.

Residence, Garage and Stable, Gwynedd Valley, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owner, W. Clifford Wood, Broad and Market streets, Philadelphia. Stone, hollow tile and plaster, residence, 2½ stories, 22x61 feet and 20x20 feet; garage, 1 story, 35x20 feet; stable 1½ stories, 22x28 feet, tile roof (electric work reserved), hot water heating, tile work, oak, pine and cement floors, metal lath. Architects taking bids, due April 28th. Specht & Sperry, Heed Building; Graham-Campion Co.,

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Machine and Electrical Shop, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., F. R. Harris, chief, Washington, D. C. Reinforced concrete, hollow tile and steel, 4 stories, 130x225 feet, or 130x675 feet, slag roof, pine floors, rolled steel sash, fire doors (plumbing, heating, electric work separate bids). Contract awarded to McClintic-Marshall Co., Pittsburgh, Pa.

Factory, D street, north of Erie avenue, \$15,000. Architect, private plans. Owner, name withheld. Brick (slow burning), 1 story, 60x100 feet, slag roof, cement floors, rolled steel sash, metal lath, roof ventilators. Contract awarded to Pomeroy Const. Co., 1609 Ransstead street.

Grit Chamber (superstructure), north of Lyeomington and west of O street. Architect, Chester E. Albright, Land Title Building, Philadelphia. Owners, City of Philadelphia, Dept. of Public Works, Bureau of Survey, Geo. E. Datsman, director, room 534 City Hall. Reinforced concrete, brick and steel, 1 story, 60x40 feet, slate roof (heating, electric work, plumbing separate bids), tile and marble work, hollow tile, metal lath, rolled steel skylights, fire doors, safety trends. Contract awarded to J. F. Shanley Co., Commercial Trust Building, Philadelphia.

Residence, Rising Sun avenue, Chestnut Hill, Philadelphia, \$7,000. Architect, E. M. Van Voorhees, 1535 Chestnut street, Philadelphia.

Owner, L. M. Martin, Twelfth and Chestnut streets, Philadelphia. Brick, frame and stucco, 2 stories, 36x21 feet, shingle roof, hot water heating, electric lighting, tile work, cement and oak floors, metal lath, wire work. Contract awarded to Specht & Sperry, Heed Building.

Office Building (add.), Meadow and Mifflin streets, \$2,000. Architect, private plans. Owners, Niles-Bement-Pond Co., on premises. Brick, 1 story additional, 20x43 feet, slag roof, maple floors, wall board. Contract awarded to Edwin M. Evans, 321 South Lawrence street.

Stable, Glenwood avenue and Dauphin st., Philadelphia, \$5,000. Architect, A. James Stewart, 6318 Opal street, Philadelphia. Owners, George Nass & Son, Broad and Vine sts., Philadelphia. Brick, 2 stories, 64x20 feet, slag roof, cement floors, ventilators, metal window guards, wire work. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Garage, 2023-25 North Twenty-ninth street, Philadelphia, \$12,000. Architect, J. J. Anderson, 301 Franklin Building, Philadelphia. Owner, John Webber, 2027 North Twenty-ninth street, Philadelphia. Brick, 2 stories, 36x200 feet, slag roof, marble work, rolled steel skylights. Contract awarded to Mutual Eng. Co., Granklin Building, Philadelphia.

roofs, hot water heating, combination lighting. Plans in progress.

Residences (8), Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadel-

Residences (200), Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 18x28 feet, slag and asphalt shingle

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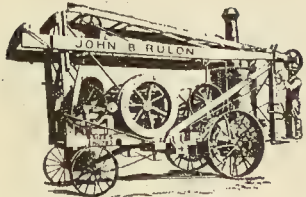
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Otis Building; Jas. H. Wells, Otis Building; F. L. Hoover & Sons, 1023 Cherry street, and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Post Office, Berwick, Columbia County, Pa. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Owners ready for bids, due May 29th at 3 P. M.

Residence (alt. and add.) and Garage, Woolly lane, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Mrs. D. W. Bliem, care of architect. Stone and frame and plaster, 2 stories addition, 30x13 feet and 14x12 feet; garage, 1½ stories, 26 x22 feet, shingle roof, cement and pine floors, electric lighting. E. J. Hedden, Finance Building, taking sub-bids.

Residence (alt. and add.) and Garage, Wister road, Ardmore, Pa. Architect, private plans. Owner, Springer H. Moore, 1631 Arch street, Philadelphia. Hollow tile and plaster, sleeping porch addition; garage, 1½ stories, 20x22 feet, slag and shingle roof (heating and grading reserved), cement and pine floors, electric lighting. E. J. Hedden, Finance Building, taking sub-bids.

Residence (alt.), Noble, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Wm. Craven, Noble, Pa. Consists of interior alterations, plastering, mill work and new bathroom, steam heating, electric lighting, tile work. Owner taking bids, due April 26th. H. H. Burrell, 206 S. Quince street, is figuring. (Only bidder.)

Buildings (3), South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Geo. A. Hildenberger, South Bethlehem, Pa. Brick, steel and concrete; crusher plant, 2 stories, 68x46 feet; screen house, 1 story, 26x26 feet; hoist house, 1 story, 26x26 feet (structural steel and sash reserved), Gypsum tile roof, fire doors, iron stairs, waterproofing. Owners taking bids, due April 28th. Pomeroy Const. Co., 1609 Ranstead street, is figuring.

Hospital and Refectory Buildings (4) and Power Plant, Byberry, Pa. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Bureau of Health and Charities, Dr. Wilmer Krusen, director, City Hall, Philadelphia. Brick, stone, terra cotta and tile, 2½ stories, 222x43 feet, 1 story, 90x64 feet (plumbing, heating and electric work separate bids), slag and slate roof, cement and pine floors, marble and terrazzo work, metal lath, hollow metal skylights, safety treads, metal window guards, iron stairs, ornamental iron work, dampproofing, wire work. Owners taking bids, due May 7th at noon. Chas. McCaul Co., 1713 Sansom street; H. E. Baton, Twelfth and Sansom sts.; Mitchell Bros., 2125 Race street, and Edw. F. Fonder, Land Title Building, are figuring.

Pump House, "B," Marcus Hook, Pa. Architect, private plans. Owners, Sun Co., Finance Building, Philadelphia. Brick, 1 story, 48x70 feet, tile roof, cement floors, electric lighting,

rolled steel sash (metal lath reserved. Owners have received bids.

Almshouse, Clark Summit, Pa. Architect, David H. Morgan, Connell Building, Scranton, Pa. Owners, Scranton Poor Section, Scranton, Pa. Brick, 2 stories and basement, 500x200 feet, tile roof, steam heating, electric lighting, tile and marble work, metal sash and lath, fireproof floors, hollow tile, roof ventilators, waterproofing. Plans in progress.

Borough Building, Clark's Summit, Pa. Architect, J. B. Thompson, Connell Building, Scranton, Pa. Owners, Borough of Clark's Summit, Clark's Summit, Pa. Brick and stucco, 1 story, 24x30 feet, slag roof, steam heating, electric lighting, wood floors, metal lath. Sketches completed.

Storage Building and Garage, Scranton, Pa. Architect, Fred A. Nelson, Connell Building, Scranton, Pa. Owner, W. J. Barriscale, 320 N. Washington avenue, Scranton, Pa. Brick and steel, 2 and 1 story, 70x150 feet, slag roof, wood floors, electric lighting, metal lath, elevators. Architect has received bids.

Hotel, Simpson, Pa., \$5,000. Architects, Hancock & Koch, Mears Building, Wilkes-Barre, Pa. Owner, John Bentlou, Simpson, Pa. Frame and stucco, 2 stories, 33x48 feet, slate roof, steam heating, electric lighting, wood floors. Plans completed. Owner will take sub-bids next week.

Store Front, Public Square, Wilkes Barre, Pa., \$15,000. Architect, Frank Sahn, Second National Bank Building, Wilkes Barre, Pa. Owners, McWilliams Dept. Store, on premises. Consists of vault lights, prism glass, metal ceiling, granite base. Plans about completed.

School (8 rooms), Alden (Newport Township), Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes Barre, Pa. Owners, School Board, Newport Township, Wanamie, Pa. Brick (fireproof construction), 2 stories, 95x75 feet, slag roof (heating, plumbing, electric lighting reserved), fan system of heating, wood floors, metal lath. Owners taking bids, due May 1st. W. J. Kear, W. V. Richards, Kehoe & Mowery Co., Schmit & Co., and Wilson J. Smith, all of Wilkes Barre, Pa., and Nanticoke Const. Co., Nanticoke, Pa., are figuring.

Church and Hall, Forrest City, Pa. Architect, John Feely, Coal Exchange Building, Scranton, Pa. Owners, St. Anthony Lithuanian R. C. Church, Forrest City, Pa. Frame, 1 story, 45x100 feet, slate roof (electric work and heating reserved), metal ceilings, ornamental iron work. Architect taking bids, due April 25th. Boland Bros., 427 Spruce street; Breig Bros., Scranton Real Estate Building; Jas. Niland, 907 Beech street, all of Scranton, Pa., and Forrest City Lumber Co., Forrest City, Pa., are figuring.

Residence and Garage, near Bycot, Bucks Co., Pa. Architects, Karcher & Smith, 34 S. Seventeenth street, Philadelphia. Owner, Edward W. Fell, North American Building, Philadelphia. Stone, frame and stucco, 2½ stories, 31x35 feet; garage, 1 story, 12x20 feet,

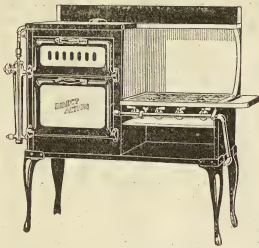
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shingle roof (lighting fixtures reserved), pine and cement floors, electric lighting, warm air heating, tile work, metal lath. Architects have received bids.

Boiler House and Equipment, Carlisle, Pa., \$50,000. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, E. B. Beeten, Carlisle, Pa. Brick and concrete, (capacity 300 H.P.), 1 story, 50x70 feet, slag roof, concrete floors. Plans in progress.

Old National Hall (alts.), Third and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Penn Realty Corporation, Third and Edgemont streets, Chester, Pa. Changing first floor into 3 stores, marble front, 1 story, metal bulks, tile work, parquet floors, electric lighting, slag roof. Owners are taking sub-bids on all lines.

Residence and Garage, Meeting House road, Abington, Pa., \$500,000. Architects, Janssen & Abbott, Century Building, Pittsburgh, Pa. Owner, Anson E. Carnill, care of Hill Oil & Gas Co., Columbus, O., and Rydal, Pa. Stone, brick and reinforced concrete, 3 stories, 18x30 feet, 1 wing, 46x26 feet, 2 wings, 18x30 feet; garage, 66x34 feet, Barrett and slate roof, steam and hot water heating, electric lighting, tile and marble work, concrete, stone, wood and composition floors, hollow tile, metal lath, fire doors, metal window guards, metal weatherstrips, dampproofing and waterproofing, ornamental iron work. Architect taking bids, due May 3rd. H. H. Burrell, 206 S. Quince street; Wm. R. Dougherty, 1610 Sansom st.; Stacey Reeves & Sons, 2011 Market street, Philadelphia; Matthews Construction Co., Princeton, N. J.; George Mertz's Sons, Port Chester, N. Y.; George A. Fuller Co., Widener Building, Philadelphia, are figuring.

Walls, Steps, Pavilions and Fountain, Abington, Pa. Architect, James L. Greenleaf, 1 Broadway, New York City. Owner, Anson E. Carnill, care of Hill Oil & Gas Co., Columbus, O., and Rydal, Pa. Brick, stone and concrete, slate roof, pine floors. Architect taking bids, due April 26th. H. H. Burrell, 206 S. Quince street; Wm. R. Dougherty, 1610 Sansom st.; Stacey Reeves & Sons, 2011 Market street, Philadelphia, are figuring.

Magazine Buildings (3), Shell House and Office Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Govt. Bureau of Yards and Docks, Navy Dept., F. R. Harris, chief, Washington, D. C. Reinforced concrete, brick and steel, 1 and 2 stories, 50x200 feet and 30x52 feet, slag and asbestos roof (heating and lighting reserved), cement and pine floors, hollow metal sash, fire doors. Owners taking bids, due May 7th at 11 A. M. McCloskey & Bahls, 1620 Thompson street, are figuring.

Farm House (alt.), Pine Forge, Bucks Co., Pa. Architect, Robt. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Mrs. David Rutter, Pine Forge, Bucks Co., Pa. Frame and stucco, 2½ stories, asphalt or wood shingle roof, hot water heating, plumbing, tile work, metal lath. Plans in progress. Architect ready for bids about May 1st.

Residences (63), Ninth and Thurlow streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Realty & Securities Co., care of Mr. Turner, American and Callowhill streets, Philadelphia. Brick, 2 stories, 17x31 feet and 18x32 feet, slag roof, hot air heating, combination lighting. Plans completed. Owners taking sub-bids on all lines.

School House (add.), Athens, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes Barre, Pa. Owners, Athens School Board, Athens, Pa. Reinforced concrete and brick, 2 stories, 125x70 feet, slag roof (heating and lighting, extension, concrete and wood floors, tile work, hollow tile, metal lath. Plans in progress.

Residences (100), Williamsport, Pa., \$2,500 each. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owners, Williamsport Realty Co., Williamsport, Pa. Frame, brick, hollow tile, stucco, 2½ stories, 20x24 feet, slate roofs, hot air heating, wood floors. Plans in progress.

School (add.), Archbald, Pa. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board of Archbald, Archbald, Pa. Brick, 2 stories and basement. Plans in progress. Details undecided.

Fire Houses (2), Olyphant, Pa., \$20,000. Architect, John J. Howley, Traders' Bank Bldg., Scranton, Pa. Owners, Borough Council, Olyphant, Pa. Brick, 2 stories, 30x66 feet, slate roof, steam heating, cement floors, electric lighting. Owners taking bids, due April 26th. Boland Bros., Scranton, Pa., and Peck Lumber Co., Olyphant, Pa., are figuring.

High School, Throop, Pa., \$100,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board, Throop, Pa. Brick, 2 stories and basement, 80x200 feet, slag roof, steam heating, electric lighting, metal lath and sash, waterproofing and dampproofing, fire doors, ventilators, composition floors, metal lockers, hollow tile, weatherstrip, cabinet work. Owners taking bids, due April 25th. Boland Bros., Scranton, Pa., and Peck Lumber Co., Olyphant, Pa., are figuring.

Cottage, Harveys Lake, Pa. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, name withheld. Stone, 2 stories, 50x30 feet, shingle roof, hot air heating, elec-



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tric lighting, wood floors. Plans in progress.
Double Residence, Bethlehem, Pa. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, A. J. Malarkey, Bethlehem, Pa. Frame, 2 stories, 24x42 feet, slag roof, hot air heating, wood floors, electric lighting. Plans in progress.

Residence (alt. and add.), Clay avenue, Scranton, Pa., \$2,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, A. B. Warman, Clay avenue, Scranton, Pa. Brick, 3 stories, 34x35 feet, slate roof, steam heating, electric lighting, metal lath, hardwood floors. Plans about completed. Architects will take bids in about one week.

Store Building and Apartment, Marcus Hook, Pa. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, name withheld. Stucco and terra cotta, 2 stories, 25x70 feet, tin roof (heating reserved), yellow pine floors, electric lighting, tile work. Plans in progress.

Apartment House, Chester, Pa., \$10,000. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owner, Wm. Lakens, Chester, Pa. Brick, 3 stories, 35x60 feet, wood floors. Plans in progress.

Residence and Garage, Williamsport, Pa. Architect, T. J. Litzelman, Williamsport, Pa. Owner, C. Hill, Williamsport, Pa. Brick, 2 stories, 32x60 feet and 26x30 feet, tile roof, direct and indirect steam heating, electric lighting, tile work, hot water heating. Plans completed.

Public Garage, Williamsport, Pa. Architect, T. J. Litzelman, 129 West Fourth street, Williamsport, Pa. Owner, T. D. Casale, Williamsport, Pa. Concrete, 1 story, 52x120 feet, composition roof, concrete floors, steam heating, electric lighting, gasoline storage system. Owner ready for bids.

Office Building, Williamsport, Pa. Architect, T. J. Litzelman, 129 West Fourth street, Williamsport, Pa. Owners, Demerest Silk Co., Williamsport, Pa. Brick, 2 stories, 30x42 feet, slag roof, steam heating, electric lighting,

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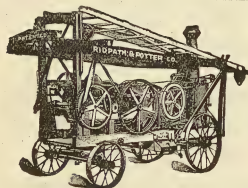
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wood floors, fire doors. Plans completed. Owners ready for bids.

Theatre Building, Shamokin, Pa., \$90,000. Architect, W. H. Lee, Shamokin, Pa. Owners, Chamberlain Amusement Co., Shamokin, Pa. Brick, 1 story, 72x125 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, fire doors, wood floors, metal lath. Plans in progress.

Store and Garage Building, Shamokin, Pa. Architect, W. H. Lee, Shamokin, Pa. Owner, J. W. Maus, Shamokin, Pa. Brick, 2 stories, 50x160 feet, concrete roof, steam heating, electric lighting, concrete floors, fire doors, metal lath, elevators, roof ventilators, gasoline storage system. Plans in progress.

Silk Mill, Williamsport, Pa. Architect, Arthur R. Rianhard, Masonic Temple, Williamsport, Pa. Owners, Williamsport Silk Co., Williamsport, Pa. Brick, 2 stories, 50x100 feet, slag roof, steam heating, electric lighting, tile work, rolled steel sash, wood floors. Architect taking bids, due April 30th. Crandall Bros., W. S. Kimball, Huffman Bros. and J. V. Bennett & Co., and Mr. Laravee, all of Williamsport, Pa., are figuring.

School, Wayne avenue section, Williamsport, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owners, Williamsport School Board, care of architect. Brick, 1 story, 125x160 feet, maple floors, electric lighting, tile work. Owners taking bids, due May 10th. Mr. Laravee, Crandall Bros. and J. V. Bennett & Co., all of Williamsport, Pa., are figuring.

Webster Building (add.), Williamsport, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owners, School Board, Williamsport, Pa. Brick, 2 stories, 16x25 feet and 35x55 feet, slate roof, electric lighting, wood floors, metal lath. Owners taking bids, due May 10th. Crandall Bros., J. V. Bennett Co. and Mr. Laravee, all of Williamsport, Pa., are figuring.

Bank Building (add.), Scranton, Pa. Architect, R. W. Snyder, Title Guarantee Building, Scranton, Pa. Owners, First National Bank, Scranton, Pa. Steel and concrete, 2 stories, 25x100 feet, Barrett roof, marble and concrete

floors, electric lighting, marble work, hollow tile, metal lath, bank fixtures, roof ventilators, waterproofing. Architect has received bids.

Moose Home (alt. and add.), Shamokin, Pa. Architect, A. H. Lee, Shamokin, Pa. Owners, L. O. O. M., Shamokin, Pa. Stucco, 3 stories and basement, 52x90 feet, asbestos roof, maple floors, steam heating, electric lighting, dumb waiters. Owners, care of J. W. Smink, chairman of Building Committee, taking bids, due April 25th. East End Lumber Co., Shamokin Lumber Co. and Reitz Bros., all of Shamokin, Pa., are figuring.

Hotel, Apartment House and Store, Shamokin, Pa. Architect, T. J. Nolan, May 'Building, Shamokin, Pa. Owner, John Glowa, care of architect. Brick, 3 stories, 28x190 feet, slag (Barrett) roof (heating, plumbing and wiring reserved), steam heating, electric lighting, tile and marble work, hollow tile, metal lath, dumb waiters, wall coping, roof ventilators, kalamein doors, fire escapes, iron stairs, metal ceilings, waterproofing, art stone. Architect has received bids.

Warehouse, Shamokin, Pa., \$15,000. Architect, A. H. Lee, Shamokin, Pa. Owners, W. C. Haack & Sons, Shamokin, Pa. Brick and concrete, 4 stories, 95x25 feet, slag roof, electric lighting, wood floors, elevators. Owners have received bids.

Temporary War and Emergency Ward Building, Roxborough, Pa. Architect, private plans. Owners, St. Timothy's Hospital, Bridge and Jamestown avenues, Roxborough, Pa. Clapboards, brick, 1 story, 28x216 feet, rubberoid roof (heating, lighting fixtures reserved), electric lighting, tile work, pine and composition floors, hollow metal skylights, roof ventilators. Owners taking bids, due as soon as possible. H. E. Baton, Twelfth and Sanson streets, is figuring.

Residence, South Bethlehem, Pa. Architect, John V. Van Pelt, 361 Fourth avenue, New York City. Owners, Kappa Alpha Lodge, Lehigh University, South Bethlehem, Pa. Brick and stucco, terra cotta, reinforced concrete, 2½ stories, 106x46 feet, tin roof (lighting reserved), steam heating, oak floors, tile and

marble work, kalamein doors, roof ventilators, waterproofing. Architect taking bids, due May 4th. Metzger & Fisher, Denckla Building, and H. E. Grau Co., 1707 Sansom street, Philadelphia, are figuring.

Fraternity House, South Bethlehem, Pa. Architect, private plans. Owners, Theta Delta Chi Fraternity, Lehigh University, South Bethlehem. Stone, brick, concrete and steel, 2½ stories, slate and slag roof, hot water heating, electric lighting, tile work, cement and oak floors, waterproofing and dampproofing. Owners, care of Nu Deuteron House Association, Theta Delta Chi Fraternity, taking bids, due April 28th. Pomeroy Const. Co., 1609 Ranstead street, Philadelphia, are figuring.

Farm Barn (alt. and add.), near Guthriesville, Chester County, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Chas. E. Kromer, 220 Essex Road, Narberth, Pa. Stone and frame, 2 stories add., 32x47 feet, shingle roof, cement floors. Architect taking bids, due April 30th. E. R. Hall & Bro., 34 South Seventeenth st., Philadelphia; George W. Piersol, Honeybrook, Pa.; Wm. Moore, East Downingtown, Pa., and Wm. H. Jones, West Chester, Pa., are figuring.

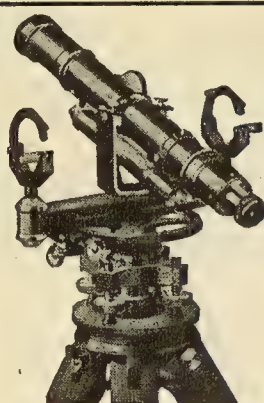
Mill Building (add.), North Wales, Pa. Architect, H. C. Eisenbise, Pennsylvania Building, Philadelphia. Owners, Montgomery Mills Co., North Wales, Pa. Brick, 1 story and basement, 67x72 feet, slag roof, steel sash (electric lighting and heating reserved), maple floors. Architect taking bids, due May 1st. W. D. Lukens, North Wales; Ludwig Keilin, Lansdale, Pa.; Nickson-Duggan Const. Corp., 1218 Chestnut street; I. T. Shoemaker, 1324 Walnut street; Sutton & Stephenson, 1317 Washington avenue, and Wark-Yardley Co., 1737 Filbert street, Philadelphia, are figuring.

Church and Parish House, Catsaqua, Pa. Architects, Watson & Huckel, 1211 Walnut street, Philadelphia. Owners, Holy Trinity Lutheran Church, Catsaqua, Pa. Stone, 1 story, slate roof. Plans in progress.

High School, Swissvale, Pittsburgh, Pa. Architect, Chas. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of School Directors, Swissvale, Pa. Reinforced concrete, steel and brick, 3 stories, 190x133 feet, tin and composition roof (heating and lighting reserved), pine and concrete floors, tile, marble and terrazzo work, hollow tile, metal lath, hollow metal skylights, kalamein doors, bank fixtures, iron stairs, roof ventilators, waterproofing and dampproofing, wire work. Architect taking bids, due May 3rd (note extension). Warren-Moore & Co., Commercial Trust Building; W. W. Anstine & Co., 1218 Filbert street, and Thos. Reilly, 1616 Thompson street, Philadelphia; Hodder Const. Co., Cheekey Building, Braddock, Pa.; Geo. M. Hall & Co., 135 Seventh avenue, Homestead, Pa.; Williams & Haas Co., 408 Empire Building; R. J. Kerr & Co., Farmers' Bank Building; Rose & Fisher, 819 Pennsylvania avenue; Dawson Const. Co., May Building, and E. F. Schellenberger & Co., 1202 Hartjo Building, all of Pittsburgh, Pa., and P. W. Finn & Son, Masonic Temple, Altoona, Pa., are figuring.

Sewage System (add.), West Chester, Pa. Consulting engineers, Remington & Vosbury, Camden, N. J. Borough engineer, Nathan Rambo, West Chester, Pa. Owners, City of West Chester, Borough Hall, West Chester, Pa. Addition to present pumping station and cast iron pipe main. Owners taking bids, due April 25th. In addition to those previously reported, Concrete and Excavation Co., 5613 Germantown avenue, Philadelphia, are figuring.

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Power House at Dam No. 24, Ohio Road, below Pittsburgh, Pa. Architect, private plans. Owners, U. S. Government, War Department, Washington, D. C. Reinforced concrete, brick and stone, 2 stories, 80x40 feet, tile roof (heating, lighting, plumbing separate bids), concrete and pine floors, rolled steel sash, fire doors, metal lath, ornamental iron work. Owners, care of U. S. Engineer's Office, Wheeling, W. Va., taking bids, due April 30th. F. W. Mark Const. Co., Finance Building, Philadelphia, are figuring.

Residence, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, Harry G. Walton, West Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 47x29 feet and 20x17 feet, slate and slag roof, vapor heating, electric lighting, tile work, oak floors, metal lath. Architect taking bids, due April 28th. Specht & Sperry, Heed Building, Philadelphia; Ochs Const. Co. and Tilghman Moyer, Allentown, Pa.; Howard Stoudt, C. F. Schwartz, Forrest Specht, and Specht Bros., all of Bethlehem, Pa., are figuring.

Residence, near Elkins Park, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner's name withheld. Stone, 2½ stories, 30x60 feet, shingle roof, hardwood floors, warm air heating, electric lighting, tile work. Plans in progress. Architects ready for bids in a week.

Store (3) and Apartment, Wyncote, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Dr. J. O.

Bower, Wyncote, Pa. Brick, frame and plaster, 2 stories, 60x65 feet, shingle and tile roof (vapor heating reserved), electric lighting, tile work, pine floors. Architect taking bids, due May 4th. W. John Stevens, Inc., Wyncote, Pa.; Specht & Sperry, Heed Building, Philadelphia; M. E. Hauser, Glenside, Pa.; E. D. Lever, Abington, Pa.; F. B. Davis, 240 North Sixteenth street, and Fred Elvide & Sons, 5522 Germantown avenue, Philadelphia, are figuring.

School Building, Yardley, Bucks County, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School District of the Borough of Yardley, E. E. Yeager, secretary of School Board, Yardley, Pa. Stone, concrete and brick or hollow tile and plaster, 1 story, 148x102 feet, slate, tin and copper roof (plumbing, heating, ventilating, electric work and fixtures reserved), cement, oak, gum and pine floors, metal lath, hollow metal skylights. Owners taking bids, due April 27th at noon. James H. Wells, Otis Building, Philadelphia; P. J. O'Neill, Yardley, Pa., and Charles R. Randall, Trenton, N. J., are figuring.

Bank Building (alts.), Patton, Pa. (Note location.) (Correction.) Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Lessees, First National Bank, Patton, Pa. Consists of alterations to first floor, marble partitions, tile floor, bank fixtures, ornamental iron doors, electric light and fixtures. Plans about completed. Architect will take bids in a few days.

PENNSYLVANIA

Contracts Awarded

Silk Mill, Blakely, Pa., \$80,000. Architect, G. N. Edson, Connell Building, Scranton, Pa. Owner, name withheld. Brick (mill construction), 2 stories and basement, 50x225 feet, slag roof, steam heating, electric lighting, wood floors, hollow tile, metal lath, elevators, sprinklers, fire doors, waterproofing. Contract awarded to Peter S. Stipp, 327 North Washington avenue, for masonry, and Howard Stonder, for carpenter work.

Residence, Penna. avenue and Sunset street, Scranton, Pa., \$15,000. Architect, Frank J. Miller, Peoples Bank Building, Scranton, Pa. Owner, G. A. Bender, Scranton, Pa. Frame and stucco, 2½ stories, 43x39 feet, asbestos shingle roof, vapor or hot water heating, electric and gas lighting. Contract awarded to Allspaules Bros., North Bromley avenue, Scranton, Pa.

Utility Building, Hazleton, Pa., \$12,000. Architect, Geo. F. Schroeder, Weitzenhorn Building, Wilkes Barre, Pa. Owner, Hazleton Cemetery Asso., Hazleton, Pa. Brick, marble trimmings, 1 story, 30x30 feet, Spanish

tile roof, steam heating, electric lighting, tile and hardwood floors, tile and marble work. Contract awarded to Geo. Woodring, Hazleton, Pa.

Cottage, Tunkhannock, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes Barre. Owner, Dr. L. H. Taylor, Wilkes Barre, Pa. Frame, 3 stories, 50x50 feet, shingle roof, hot air heating, electric lighting. Contract awarded to Shepherd Const. Co., Miners Bank Building, Wilkes Barre, Pa.

Summer House and Garage, Leman Township, Pa. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owner, name withheld. Frame, 2 stories and basement, 70x30 feet, shingle roof, hot air heating, electric lighting, wood floors. Contract awarded to Shepherd Const. Co., Miners Bank Building, Wilkes Barre, Pa.

Factory (add.), Greenridge street, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, J. R. Fleming & Son Co., Scranton, Pa. Brick,

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2 stories, 80x80 feet, slag roof, steam heating, electric lighting, yellow pine and concrete floors. Contract awarded to R. C. Dean, Church street, Scranton, Pa.

Store Front, 116 Wyoming street, Scranton, Pa. Architect, David H. Morgan, Connell Building, Scranton, Pa. Owner, Louis Nevin, Scranton, Pa. Contract awarded to Washburn & Williams Co., Scranton, Pa.

School, Biddle and Church streets, West Chester, Pa., \$90,717. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owners, Board of Education, W. H. Lewis, secretary, West Chester. Brick, stone, concrete and terra cotta, 3 stories, 147x66 feet, and 70x41 feet, asbestos and asphalt roof, pine and cement floors, metal lath, waterproofing, fire doors (ventilators, steam heating, electric work, plumbing separate bids), hollow tile, tile work. Contract awarded to Metzger & Fisher, Denckla Building, Philadelphia.

High School, Upper Darby, Pa., \$135,231. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Board of Education, School District of Upper Darby, care of J. Milton Lutz, secretary, First National Bank Building, Clifton Heights, Pa. Stone, 2 stories, 110x200 feet, central wing 60x72 feet, slate and security roof, reinforced concrete floors, maple floors, tile work, hollow metal skylights, fire doors safety treads, dampproofing (direct and indirect system of steam heating, including ventilating, electric work and plumbing separate bids). Contract awarded to Butz & Clader, Allentown, Pa.

Residence, near Overbrook, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Le Roy P. Leas, care of Leas & McVitty, 305 Vine street, Philadelphia. Stone, 2½ stories, 33x110 feet, shingle roof (vapor heating, electric lighting, plumbing and tile work reserved), hardwood floors. Contract awarded to J. D. Lengle, Wayne, Pa.

Factory, Power House and Office Building (alt. and add.), Fifth and Penn streets, Chester, Pa., \$50,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia.

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1927 W. Montgomery Avenue, Philadelphia, Pa.

Owners, McCausland Eng. Co., Pennsylvania Building, Philadelphia. Brick, steel and concrete, 3 and 2 stories, 75x317 feet, 1 story, 82x58 feet, and 1 story, 45x33 feet, slag roof (steam heating, electric lighting reserved), composition, cement and maple floors, fire doors, metal window guards, wire work. Contract awarded to the Chester Const. & Cont. Co., Chester, Pa.

Residence, Springfield, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Frank C. Birch, 941 S. Fifty-ninth street, Philadelphia. Frame and plaster, 2½ stories, 26x34 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Residence and Garage, Merion, Pa., \$12,000. Architects, Duhring, Okie & Ziegler, 1218 Walnut street. Owner, C. R. Wentz, Genn road, Ardmore, Pa. Stone, 2½ stories, 30x42 feet and 18x26 feet; garage, 1½ stories, 24x30 feet, shingle roof, oak floors, hot water heating, electric lighting, tile work. Contract awarded to A. L. Fretz & Son, Heed Building, Philadelphia.

Residence (alt.) and Garage, Cynwyd, Pa., \$5,000. Architect, private plans. Owner, Jos. B. Haywood, Cynwyd, Pa. Stone, 2½ stories, garage, 1 story, 17x21 feet, tin roof, cement floors, hot water heating, electric lighting,

tile work (hardwood floors reserved). Contract awarded to A. L. Fretz & Son, Heed Building, Philadelphia.

Residence and Garage, Merion, Pa., \$25,000. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Wm. H. Steigerwalt, 1420 Chestnut street, Philadelphia. Stone, 2½ stories, 34x105 feet and 25x26 feet, shingle roof, oak floors, tile work (hot water heating, plumbing, electric work, cement walks, finished hardware reserved). Contract awarded to Keller Bros., 480 Harmon Road, Roxborough, Pa.

Garage and Laundry, Glenside, Pa., \$4,000. Architect, private plans. Owner, Thomas B. Smith, Glenside, Pa. Terra cotta and plaster, 2 stories, 25x45 feet, slate roof, steam heating, electric lighting, roof ventilators, pine floors. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Reservoir, Ringtown, Pa. Engineer, M. C. Krouse, Williamsport, Pa. Owners, City of Ringtown, Commissioners of Ringtown, Pa. Concrete. Contract awarded to John P. Kelly, Buffalo, N. Y.

Store, North Wilkes-Barre, Pa. Architect, Austin L. Reilly, Bennett Building, Wilkes-Barre. Owner, Blaze Jewiskey, North Wilkes-Barre, Pa. Frame, 2 stories, 40x50 feet, slag roof, electric lighting. Contract awarded to Eckenrode Bros., Wilkes-Barre, Pa.

NEW JERSEY Construction News

Residence (alt. and add.), Port Mercer, N. J. Architect, Irwin T. Catherine, Land Title Building, Philadelphia. Owners, Mr. and Mrs. Isaac May Champion, 3312 Race street, Philadelphia. Stone and brick, 1 story rear addition, 22x13 feet, slate and tin roof (flooring reserved), hot water heating, electric lighting, tile and marble work, concrete and composition floors, metal lath. Architect taking bids, due April 25th. F. B. Davis, 240 North

Sixteenth street; Frank Stewart, 1619 Sansom street, Philadelphia, and Matthews Construction Co., Princeton, N. J., are figuring.

High School, Cape May, N. J. Architect, L. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board of Cape May, Cape May, N. J. Brick, 3 stories, 56x125 feet, slag roof, steam heating, electric lighting, metal lath, wood floors. Lowest bid submitted by W. Borch, Sheen Building, At-

lantic City, N. J.

High School, Cape May Court House, N. J. Architect, S. H. Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board of Cape May Court House, Cape May Court House, N. J. Brick, 3 stories, 96x94 feet, slag roof, steam heating, electric light, metal lath, yellow pine floors. Lowest bid submitted by W. Porch, Sheen Building, Atlantic City, N. J.

Bungalow, Cape May, N. J., \$3,500. Architect, Otis M. Townsend, Ocean City, N. J. Owner, Walter F. Entrican, Cape May, N. J. Frame, 2½ stories, 26x43 feet, shingle roof, wood floors. Plans in progress. Architect will submit.

Hotel, Ocean City, N. J., \$1,250,000. Architect, J. O. Stevens, Chicago. Owners, Meadowbrook Hotel Co., Ocean City, N. J. Reinforced concrete and steel, 14 stories, 207 feet, reinforced concrete and slag roof, steam heating and electric and gas lighting, tile and marble work, fire escapes, iron stairs, concrete and hardwood floors, hollow tile, metal lath, elevators, waterproofing. Plans in progress.

Fire House, Pennsylvania avenue, Atlantic City, N. J., \$25,000. Architects, Stout & Ribbenack, Guarantee Trust Building, Atlantic City. Owners, Dept. of Public Safety, Atlantic City, N. J. Brick and terra cotta, 2 stories, 37x100 feet, tile roof (heating, plumbing and electric lighting reserved), tile work, concrete and yellow pine floors, metal lath. Owner taking bids, due May 3d. Thompson Bros., W. Beaumont and P. Hannum, all of Atlantic City, N. J., are figuring.

Apartment House, Atlantic City, N. J., \$70,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Misses Rose A. and Mary A. Flynn, North Carolina avenue, Atlantic City, N. J. Brick, 5 stories, 13x26 feet, slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors, hollow tile, metal lath, elevators, roof ventilators, fire escapes, iron stairs, galvanized iron skylights, waterproofing. Plans about completed.

Fire House, Indiana avenue, Atlantic City, N. J. Architect, G. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, Dept. of Public Safety, Atlantic City, N. J. Brick, 2 stories, 30x110 feet, tile roof, cement floors, electric lighting, metal lockers, tile and marble work. Owner taking bids, due May 3d. W. Beaumont, 10 S. Tennessee avenue, is figuring.

Municipal Pier, Somers Point, N. J., \$3,000. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owners, City of Somers Point, City Clerk, Somers Point, N. J. Frame, auditorium, 24x40 feet, approach, 200x8 feet, composition roof, electric lighting, yellow pine floors. Owners taking bids, due May 5th. Chas. Curson, Linwood, N. J., and Atlantic Const. Co., Atlantic City, N. J., are figuring.

Club House, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Merchantville Country Club, Merchantville, N. J. Hollow tile and plaster, 2 stories and basement. Plans in progress. Details not decided.

Bank Building (alts.), Trenton, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut st., Philadelphia. Lessees, First National Bank, Trenton, N. J. Consists of alterations to first floor, marble partitions, tile floor, bank fixtures, ornamental iron doors, electric lighting and fixtures. Plans about completed. Architect will take bids in a few days.

Residence, Wenonah, N. J. Architects,

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Norris & Erskine, Crozer Building, Philadelphia. Owner, Oscar B. Redrow, Wenonah, N. J. Stone and stucco, 2½ stories, 10x30 feet, slate roof (hot water heating, plumbing and electric work reserved), oak floors, tile work. Architects taking bids, due April 27th. R. C. Bullinger & Co., 215 North Thirteenth st.; H. E. Grau Co., 1707 Sansom street; Daniel S. Sullivan, 622 South Conestoga street, and Jos. B. Best, Woodbury, N. J., are figuring.

Farm House, Port Mercer, N. J., \$2,000. Architect, Irwin T. Catherine, 1418 South Fifty-fifth street, Philadelphia. Owners, Mr. and Mrs. Isaac K. Champion, 3312 Race street. Frame and stucco, 2 stories, 25x32 feet, shingle roof, pine floors. Plans about completed. Architect ready for bids in a few days.

Store (2), Apartments (4), Stone Harbor, N. J. Architects, Custer & Seltzer, Third and Market streets, Camden, N. J. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Frame, 2 stories, 35x64 feet, slag roof, wood floors, electric lighting. Plans in progress. Owners will take bids.

Twin House, Salem, N. J., \$5,000. Architects, Custer & Seltzer, Third and Market streets, Camden, N. J. Owner's name withheld. Hollow tile, 2½ stories, 43x28 feet, shingle roof, hot water heating, electric lighting, tile work, yellow pine floors (heating reserved). Plans completed. Architects taking sub-bids.

Residence and Garage, Haddonfield, N. J., \$15,000. Architects, Custer & Seltzer, 304 Market street, Camden, N. J. Owner's name withheld. Hollow tile, 2½ stories, 48x45 feet, shingle roof, hot water heat, electric lighting, tile work, hardwood floors. Plans completed. Architects taking sub-bids.

Hotel, Avalon, N. J., \$15,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner's name withheld. Frame, 2 stories and basement, 90x40 feet, and wing 20x40 feet, shingle roof, hot water heating, combination lighting, pine floors, metal lath, roof ventilators. Plans in progress. Will take bids in ten days.

NEW JERSEY Contracts Awarded

Bulkhead and Sea Wall, Princeton avenue and Beach, Atlantic City. Architect, Seward G. Dobbins, 10 S. Tennessee avenue, Atlantic City. Owner, Mrs. Anna R. Mauser, Atlantic City, N. J. Reinforced concrete, 100 feet long, 25 feet wide. Contract awarded to Mr. Bloodgood, Guarantee Trust Building, Atlantic City, N. J.

Apartment House (alt. and add.), 110 Atlantic avenue, Atlantic City. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owners, Jules F. Dedan, on premises, Brick and frame, 4 stories, 25x30 feet, slag roof, steam heating, electric lighting, hardwood floors. Contract awarded to Geo. Pifer, Atlantic City, N. J.

Boiler House, Tennessee avenue and Boardwalk, Atlantic City, N. J. Architect, J. C. Westerville, New York City. Owners, Childs Co., Atlantic City, N. J. Brick, 1 story, 14x50 feet and 12x20 feet. Contract awarded to C. D. Thompson, Guarantee Trust Building, Atlantic City, N. J.

Music Pavilion, Ocean City, N. J., \$18,744. Architect, Otis Townsend, Ocean City, N. J. Owners, Dept. of Public Works, Ocean City, N. J. Frame and concrete, 1 story, 50x

School, Rancocas, N. J., \$6,500. Architects, Moffett & Stewart, Inc., 30 North Third st., Camden, N. J. Owners, Board of Education, Willingboro Township, Burlington County, N. J. Frame, 1 story, 40x75 feet, shingle roof, North Carolina pine floors. Owners will be ready for bids April 29th.

Sewer Extension, Spring Lake, N. J. Engineers, Remington & Voshury, Sixth and Market streets, Camden, N. J. Owners, Borough of Spring Lake, Spring Lake, N. J. Consists of 4,000 feet of 6-inch and 8-inch terra cotta pipe and small sewage pumping station. Owners taking bids, due April 30th. Pacific Flash Tank Co., Singer Building, New York City; W. J. Smith, Spring Lake, N. J., and Field, Barker & Underwood, Inc., Commercial Trust Building, Philadelphia, are figuring.

Garage and Warehouse, Brunswick avenue, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owners, Board of Freeholders, Mercer County, Trenton, N. J. Brick, 2 stories, slag roof, steam heating, electric lighting, cement floors. Owners taking bids, due May 8th. S. W. Mather & Son, Greenwood and Canal streets; W. R. Ivans, 705 Monmouth street; Scott & Day, 114 North Montgomery street; James Morris, Broad Street Bank Building; Burton & Burton, American Mechanics' Building; Charles Smith, all of Trenton, N. J., are figuring.

Garage, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owner, Hugh D. Trout, Trenton, N. J. Hollow tile and stucco, 1½ stories, 21x21 feet, slate roof, cement floors, electric lighting. Architects have received bids.

Woman's Reformatory (add.), Clinton, N. J. Architect, P. H. Bent, State House, Trenton, N. J. Owners, Board of Managers, Woman's Reformatory, Clinton, N. J. Hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, wood floors, hollow tile. Plans in progress.

Bank, Trenton, N. J. Architects, Dennison, Hiron & Darbyshire, 475 Fifth avenue, New York City. Owners, Trenton Bank, Trenton. Plans in progress. Too early for details.

70 feet, slag roof, wood floors (electric lighting and plumbing reserved). Contract awarded to Allen Scull, Ocean City, N. J.

Machine Shop (add.), Plainfield, N. J., \$75,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Reinforced concrete and brick, 1 story, 28x76 feet, asbestos roof, cement and pine floors, metal window guards, hollow metal sash, fire doors. Contract awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Summer Hotel (add.), near Lanoka, N. J., \$3,000. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owner, Jefferson Schiel, care of architect. Frame, 2 stories, addition 41x19 feet (hot water heating reserved), slag roof, plumbing, cement floors. Contract awarded to Harry D. Black & Son, Ocean Gate, N. J.

Garage, 518 West street, Camden, N. J., \$2,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Mr. Wm. C. Davis, care of architects. Brick, 1 story, 20x100 feet, slag roof, cement floors, electric lighting, ventilators, hollow tile, gas-

line storage system. Contract awarded to Wm. Wiffrid, 525 Market street, Camden, N. J.

Residence, Merchantville, N. J., \$6,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Jos. H. Carr, Security Trust Building, Camden, N. J. Frame, 2½ stories, 29x37 feet, shingle roof, hot water heating, combination lighting, gum and tile floors, tile work (heating, plumbing and electric wiring reserved). Contract awarded to Philadelphia Const. Co., 9 South Eighteenth street, Philadelphia.

Bungalow, Stone Harbor, N. J., \$2,500. Architects, Custer & Seltzer, Third and Market streets, Camden, N. J. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Frame, 1½ stories, 20x30 feet, shingle roof, wood floors, electric lighting. Contract awarded to W. L. Turpin & Sons, Stone Harbor, N. J.

Sea Wall and Jetties, Longport, N. J., \$340,000. Engineers, Case Coast Protection Corp., 1170 Broadway, New York City. Owners, Borough of Longport, Board of Com., Borough Hall, Longport. Reinforced concrete wall, 6,090x16 feet, pnenade, 6,090x14 feet, jetties, 300x36 feet, 3,045 reinforced concrete pilings, concrete hardner. Contract awarded to Sutton & Corson, Ocean City, N. J.

Delaware Construction News

Residence (alt. and add.), Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Wm. Wyatt, 1413 Van Buren street, Wilmington, Del. Brick, 2½ stories, slag roof, electric lighting, wood floors. Plans in progress.

Hospital, Eighth and Adams streets, Wilmington, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Physicians' and Surgeons' Hospital, on premises. Brick, 3 stories, 27x80 feet, slag roof, electric lighting, metal lath, waterproofing, wood floors, fire escapes, iron stairs, dumbwaiters, tile and marble work. Architect taking bids, due April 27th. E. R. Hall & Bro., 34 South Seventeenth street, and Geo. Hogg Const. Co., 1634 Sansom street, Philadelphia; A. S. Reed & Bro., 815 Shipley st.; Wm. D. Haddock, 804 Orange street; J. A. Bader, Lackey Building, and F. E. Haley, 2697 West Eighteenth street, Wilmington, Del., are figuring.

Laundry Building (add.), Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Delaware Hospital, Wilmington, Del. Brick, 2 stories, 33x23 feet, slate roof, wood floors. Architect taking bids, due as soon as possible. W. D. Haddock & Co., 804 Orange street, Wilmington, Del., are figuring.

Warehouse (add.), Newark, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, American Vulcanized Fibre Co., Newark, Del. Brick, 1 story, 100 x100 feet, asbestos shingle roof (heating and sprinklers reserved), maple floors, electric lighting, fire doors. Plans about completed. Architect will take bids in a few days.

Garage, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, Frank S. Dure, 1509 Franklin street, Wilmington, Del. Brick, 2 stories, 23x30 feet, slag roof, electric lighting, wood floors. Plans in progress.

Show Room and Shop, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, name withheld. Brick and stone, 1 story, 100x150 feet, Spanish

tile roof, wood floors (heating undecided), electric lighting. Plans in progress.

Roof Garden, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, City Club of Wilmington, Wilmington, Del. New flooring. Architect taking bids, due April 25th. J. E. Haley & Son, 2607 West Eighteenth street; Wm. A. Haddock & Co., 804 Orange street; Realty Const. Co., Dupont Building, and J. A. Beard, all of Wilmington, Del., are figuring.

Garage, Wilmington, Del., \$25,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John J. Monaghan, Fourth and Madison streets, Wilmington, Del. Brick, 2 stories and basement, 60x80 feet, slag roof, (gasoline storage system and electric lighting reserved), steam heating, concrete and wood floors, rolled steel sash, elevators. Plans about completed. Architect will take bids in a few days.

Residence, 506 Delmore street, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Peter J. Ford, on premises. Brick, 2 stories and basement, 16x45 feet, tin roof, hot water heating, gas and electric lighting, wood floors. Plans completed. Owner taking sub-bids.

Hotel (int. alt.), Wilmington, Del., \$2,000. Architect, J. J. Kennedy, Ford Building, Philadelphia. Owners, Hotel Cassidy, Wilmington, Del. Contract awarded to Jos. Schunder, 600 Rodney street, Wilmington, Del.

Miscellaneous Construction News

Hunting Lodge, Georgetown, S. C. Architect, Leon W. Crawford, Equitable Building, Wilmington, Del. Owner, name withheld. Brick and stone, 1½ stories, 110x90 feet, slag roof, steam heating, electric lighting (lighting fixtures reserved), tile work, hardwood floors, hollow tile. Architect taking bids, due April 27th. Realty Const. Co., Dupont Building, Wilmington, Del., and Mr. Benson and Mr. Brightman, Georgetown, S. C., are figuring.

Post Office, Columbia, S. C. Architect, Jas. A. Wetmore, Treasury Dept., Washington, D. C. Owners, U. S. Govt., Treasury Department, Washington, D. C. Stone, brick, 2 stories, 110 x154 feet, composition roof (plumbing, heating electric work, ventilating separate bids), concrete and pine floors, tile and marble work, hollow metal skylights and doors, metal lath, waterproofing. Owners taking bids, due April 30th. Chas. McCaul Co., 1713 Sanson street, are figuring.

Miscellaneous Contracts Awarded

Gun Shop, Washington, D. C. Architect, private plans. Owners, U. S. Govt., F. R. Harris, chief, Washington, D. C. Reinforced concrete, steel and hollow tile, 1 story, 50x42x15 feet, composition and slag roof, rolled steel sash, fire doors. Contract awarded to J. Henry Miller, Entaw and Franklin streets, Baltimore.

Automat Cafe (alt. and add.), 115-17 E. Fourteenth street, New York City, \$15,000. Architect, Stueckert & Co., Crozer Building, Philadelphia. Owners, Horn & Hardart Baking Co., 600 West Fifth street, New York City. Brick and stone, 3 stories, 50x150 feet, slag roof (heating not decided), electric lighting, tile, marble and terrazzo work, cement work, hollow tile, metal lath, ornamental iron work. Contract awarded to Harry R. Rust, 724 Ludlow street, Philadelphia.

Maryland

Construction News

Sulphur Store House and Elevator House, Indian Head, Md. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Brick, concrete and steel, 1 story, reinforced concrete and corrugated iron roof, concrete floors. Owners ready for bids, due May 7th at 11 A. M.

Foot Bridge, Indian Head, Md. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Bascule type. Owners taking bids, due May 7th at 11 A. M.

Factory, 220-24 North Front street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, L. Gordon & Son, 228 North Front street, Baltimore, Md. Brick (joist const.), 3 stories, 43x148 feet, slag roof, pine or maple floors (steam heating, electric work and elevators reserved), rolled steel sash, fire doors, metal lath. Plans in progress. Architect will take bids about May 15th.

Cow Barn, Cockeysville, Md. Architects, Mott & White, 322 North Charles street, Baltimore. Owner, Mrs. Emily McLane Merryman, Cockeysville, Md. Frame, 1 and 2 stories, 26x60 feet, concrete and cork tile floor, composition roof, skylights, ventilators. Plans completed. Architects ready for bids.

Residence, Lake Drive, Md., \$30,000. Architects, Smith & May, Calvert Building, Baltimore. Owner, Abraham Eisenberg, 213-15 W. Lexington street, Baltimore. Brick, 1½ stories, slate roof, electric lighting. Plans about completed. Architects will be ready for bids in about ten days.

Garage, Longwood Road, Roland Park, Md. Architect, O. B. Wight, Munsey Building, Baltimore, Md. Owner, Frank V. Coggins, 19 S. Charles street, Baltimore. Reinforced concrete, 1 story, 18x20 feet, slag roof, electric lightin. Plans in progress.

Ice and Power Plant and Shipping Warehouse, Rock Creek, Anne Arundel County, Md. Architects, J. H. & F. J. Thuman, 2508 North Charles street, Baltimore. Owners, J. H. & L. A. Dockman, 32 East Montgomery street, Baltimore. Concrete or brick foundation, frame, slag roof. Plans in progress.

School Building, Highlandtown, Md. Architects, Smith & May, Calvert Building, Baltimore. Owners, Baltimore County School Board, Albert S. Cook, secretary, Court House, Towson, Md. Brick, 3 or 4 stories, slag or tin roof, iron and steel work, plumbing, concrete work. Plans in progress. Will be ready for bids in about three weeks.

Bakery (add.), Andre & Clement streets, Baltimore. Architect, O. B. Wight, Munsey Building, Baltimore. Owner, N. Gayo, on premises. Brick, 1 story, 26x35 feet, slag roof, electric lighting, steel and iron work, skylights, ventilators, plastering. Architect taking bids. C. C. Watts, 407 East Twenty-fifth street; Herbert & Prodoehl, Munsey Building; Cogswell-Koether Co., 406 Park avenue, are figuring.

Apartment House, Thirty-sixth, Greenway and St. Paul streets, Baltimore. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, George R. Debnam, Union Trust Building, Baltimore. Brick, stone and stucco, 4 stories, 106x41x84 feet, tile and tin roof, vapor heating, electric lighting, ornamental iron work, fire escapes, skylights, ventilators, dampproofing, plastering, metal lath, painting, plumbing, tile, marble, slate or terrazzo work, dumb waiters, cement floors, metal

windows and doors. Architects taking revised bids. J. Henry Miller, Inc., Entaw and Franklin streets, and H. D. Watts Co., Garrett Building, Baltimore, are figuring.

Maryland

Contracts Awarded

Residence, Park Heights avenue, Baltimore, Md., \$13,000. Architect, John R. Forsythe, 232 St. Paul street, Baltimore, Md. Owner, Wm. H. Walper, 124 West Baltimore street, Baltimore. Frame, 2½ stories, stone trim, slate roof, hot water heating, electric lighting, dampproofing, plastering, metal lath, plumbing, tile work, hardwood floors. Contract awarded to C. W. Littleton & Son, 4313 Liberty Heights avenue, Baltimore, Md., who are taking sub-bids.

Hotel, Havre de Grace, Md. Architect, Theo. W. Pietsch, American Building, Baltimore. Owners, Susquehanna Inn Co., Inc., care of Rudolph Reinecker, Emerson Hotel, Baltimore. Brick, frame and stucco, 3 stories, 63x128 feet, slate roof, iron work, ornamental iron work, skylights, ventilators, reinforced concrete, tile, marble and terrazzo work, dumb waiters (plumbing, heating and electric wiring and fixtures reserved). Contract awarded to Clarence E. Stubbs, 548 Equitable Building, Baltimore, who is taking sub-bids.

Store, Howard and Monument streets, Baltimore. Architects, Blanke & Zink, Equitable Building, Baltimore. Owner, Julius Mintz, Equitable Building, Baltimore. Brick, 1 story, 30x32 feet, slag roof, electric lighting, iron work, reinforced concrete work, plumbing, plastering, metal work. Contract awarded to Herbert & Prodoehl, Munsey Building, Baltimore.

Sub-Station, Sollers Point, Md. Architect, private plans. Owners, United Railways and Electric Co., Continental Building, Baltimore. Reinforced concrete, 60x89 feet, slag roof, metal lath, steel rolling doors. Contract awarded to West Const. Co., American Building, Baltimore.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 13, 1917.—Sealed proposals will be opened in this office at 3 p. m., May 25, 1917, for the construction of the United States post office at Washington Court House, Ohio. Drawings and specifications may be obtained from the custodian of the site at Washington Court House, Ohio, or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 13, 1917.—Sealed proposals will be opened in this office at 3 p. m., May 29, 1917, for the construction complete of the United States post office at Berwick, Pa. Drawings and specifications may be obtained from the custodian of site at Berwick, Pa., or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

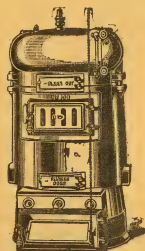
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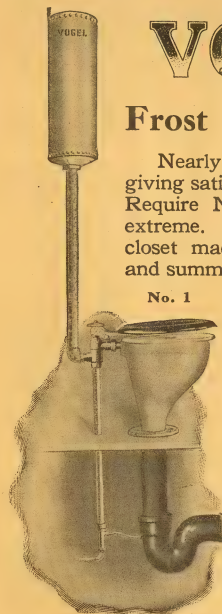
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NAME OF MESH	CLEAR SPAN IN FEET															OVER ALL THICKNESS OF SLAB IN INCHES
	4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	
3-13-075	119	86	63	45	32	22										3 Inches
3-13-075	178	130	96	71	51	36	25									4 Inches
3-13-125	218	164	126	98	76	60	46	36	27							3 Inches
3-13-125	323	245	189	147	116	91	72	56	43	24						4 Inches
3-9-15	395	302	235	185	148	119	95	77	61	38	21					4 Inches
3-9-20	536	413	325	260	211	172	142	117	97	66	44	28				4 Inches
3-9-30	744	578	458	370	303	251	210	176	149	107	77	55	38	25		4 Inches
3-6-40	1049	818	652	529	436	363	305	258	220	162	121	90	67	49	34	4 1/2 Inches
3-6-40	1797	1404	1124	915	757	634	536	457	393	295	225	173	133	102	78	6 Inches

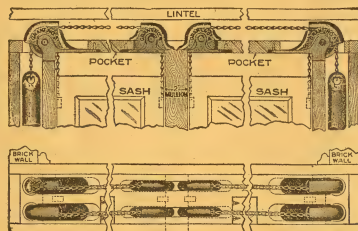
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Vol. XXXII., No. 18
May 2, 1917

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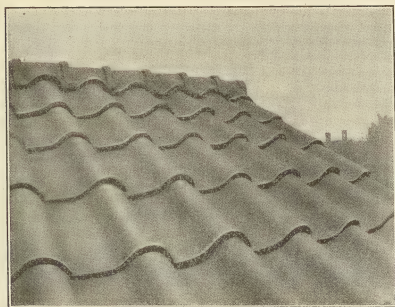
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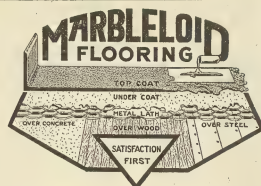
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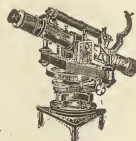
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural

VOLUME XXXII

Engineering and the Building Trades

PHILADELPHIA

Number 18

May 2, 1917



As The Editor Sees It



THE Philadelphia Master Builders' Exchange was thirty years "young" on Thursday. We say thirty years "young" because among the signs of age are to be noted such conditions as feebleness, decrepitude and physical degeneration and the Master Builders' Exchange, far from showing any of these impairments as a result of the three decades through which it has passed, is just as spry; as active and as vigorous as it was twenty years back.

* * *

THE Master Builders' Exchange is one of Philadelphia's institutions. It is one of the organizations that lend this fine, old Quaker city its unique distinction among municipalities. It stands for the things that give Philadelphia its commanding position as a center of healthy and wholesome civic aspirations. It symbolizes solidity, conservatism, vision and the spirit of co-ordinated effort. It is the largest organization of its kind, in point of membership, in the United States.

It is the wealthiest organization of its kind in the United States.

It was the first organization of builders to establish, as a feature of its activities, a permanent building exhibit.

It owns its own building and is free of debt.

It is a recognized leader in every movement, trade or lay, inspired by the needs of the craft or the growth and welfare of Philadelphia.

* * *

IT was on June 7, 1886, that the idea of the Philadelphia Master Builders' Exchange was first projected. The suggestion was a happy thought of Charles H. Reeves, who outlined his plans at a meeting of the Master Plasterers' Company, of which he was a member.

"For 100 years," said Mr. Reeves, trade organizations have prospered in Philadelphia. It was one of these,—the Carpenters' Company,—that gave shelter to the first Continental Congress on September 4, 1774, and it is proper, if not absolutely necessary, that the members of that company, this company, and every similar organization unite under one common banner for the benefit of the building trade." President Allen, of the Plasterers' Company, Wm. H. Albertson and Mr. Reeves, were appointed a committee to act on the suggestion. It was on September 6 that the first meeting took place at 1321 Arch street. David A. Woelpper presided and named Stacy Reeves, George W. Roydhouse and Frederick H. Mylhertz to draft a resolution expressive of the object of the proposed organization.

This committee reported the following resolution:

"That we, the committee appointed by our several organizations, agree to recommend to our different associations the necessity of forming an organization embracing all the branches of the building trade, master mechanics and material men for our mutual benefit and protection, such organization to be known as the Master Builders' Exchange of the city and county of Philadelphia."

It was on December 28 that the first Board of Directors was chosen; made up of Miles King, Charles H. Reeves, David A. Woelpper, Peter Carrigan, Wm. Harkness, Jr., Wm. Rice, Jr., Hugh Copeland, Stacy Reeves, George Watson, Geo. Roydhouse, Wm. H. Albertson, J. Steinhorn, Alfred P. Shannon, Fred. H. Mylhertz, John Byrd, Daniel J. Creswell, Joseph Chapman, Jno. F. Huneker, Jno. E. Evanson and Murrell Dobbins. Mr. Nice declined to serve, necessitating the election of Charles Gillingham in his stead.

At the very first meeting of the Board of Directors, John H. Stevens was chosen President of the Exchange. On February 2, 1887, the Exchange was granted its charter.

It was not, however, until April 7, 1887, that the Exchange, then located at Third and Walnut streets, had its first formal opening. Four hundred master builders and material men were in attendance at this now historic function.

* * *

IT was at this meeting that the decision was reached to purchase the building, since known as the home of the Exchange.

The building was the property originally of the German Society of Pennsylvania which erected it in 1807, General Peter Muhlenberg, at that time president of the society, taking part in the dedicatory ceremonies. After being used in turn as a German school, a college of pharmacy, and as the offices of the Schuylkill Navigation Company, the building passed, in 1849, by lease, into the hands of the old Gas Trust. Until 1866, the old building stood intact. In that year it was partly torn down and replaced by the present structure.

* * *

DURING the thirty years of its corporate existence the Exchange has been a power for good in promoting the advancement of the building trades.

Its activities have covered every phase from the stimulation of better and more cordial relations as between the various branches of the craft itself, as between the craft and the architect, as between the craft and the public and as between the Exchange as a unit and trade bodies of similar aim throughout the country.

It has been an inspiration to higher ideals, an influence for fixed ethical standards and an agency for the dis-

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semination of statistical and other data important to the trade.

* * *

A MERE enumeration of the things it has done to better the status of the building trade, within the past thirty years, would consume more space than we can afford to give to this hastily penned little resume of its long and honorable career.

Its exhibit of building materials and appliances is one of the most complete ever assembled in a permanent display of the kind.

Its weekly luncheon, at which is to be met about everybody who can claim to be anybody in the building and material world, is one of its unique and delightful features.

Its quickly accessible and voluminous compilation of data and other information covering every branch of the building trades is an achievement in itself

of far-reaching and noteworthy importance.

May we close these few editorial generalizations with "many happy returns?"

* * *

A NY mention of the Exchange would be incomplete without a word regarding its present wide-awake, hustling and progressive Board of officers: President, Jacob L. Tyson; Vice-residents, O. W. Ketcham, Edwin E. Hollenback and W. Nelson Mayhew; Secretary, Charles Elmer Smith; Treasurer, P. D. Smith; Directors, J. Turley Allen, F. F. Black, Harry Boon, A. G. Buvinger, C. E. Drehmann, Edgar J. Ellis, Chas. H. Fowler, F. M. Harris, Jr., Edward F. Henson, Wm. W. Hodgson, Edwin E. Hollenback, O. W. Ketcham, C. I. Leiper, Albert McChesney, W. Nelson Mayhew, Edw. F. Morse, C. F. Shellenberger, Harold Smith, Jos. M. Steele, Jacob L. Tyson and Geo. J. Watson.

other projects of a similar nature. Commitments for Federal construction loom large in the orders for the week. The American Bridge Company and the McClintic-Marshall Company each obtaining important contracts for the erection of cranes at the League Island Navy Yard at Philadelphia and the Norfolk Navy Yard, respectively. The week was a light one as far as bookings for steel for purely local consumption was concerned, although the inquiries current indicate that there is an immense amount of work in prospect and a fair amount now figuring. There has been no important price revision this week, although the trade fully expects that the prices of structural shapes will be further advanced.

* * *

Bath Portland Cement Co. has moved its offices from 1182 Broadway to 8 West Fortieth street.

* * *

From the records of the Bridge Builders Structural Society, as collected by its secretary, it is shown that during March, 1917, 68 per cent. of the entire capacity of the bridge and structural shops of the country was contracted for. The present outlook for the steel industry is that the coming months will be registered among the busiest in the annals of the business. It seems now as though Government requirements totalling a million tons or more would be placed before May 1.

* * *

A recent statement of the United States Steel Corporation showed that the unfilled tonnage orders on the books March 31, established a new high record for the concern. The figures for March surpassed the previous high mark for February, 1917, by 134,947 tons, and showed an increase of 2,380,643 tons over the corresponding period of 1916. The gain of 134,947 tons of unfilled orders for fabricated steel in March is to be regarded as a highly favorable condition when the fact is taken into consideration that the shipments were much heavier in March than in either January or February, and the further fact that the books have been congested with orders for months and thousands of tons of prospective business has recently been turned away.

* * *

Owing to the international complications and the consequent state of internal affairs that are likely to follow, the spring meeting of the Portland Cement Association, which was to be held in San Francisco, April 16 to 18, inclusive, was postponed indefinitely.

* * *

Rolland C. Buckley, of Minneapolis, and **E. Paul Prins**, formerly of Chicago, announce the forming of a copartnership for the practice of architecture, with offices in the Plymouth Building, Minneapolis.

* * *

Plans have been prepared, it is reported, for a 57-story building, capable of housing 10,000 people in hotel rooms and offices. Plans call for a 27-story hotel and 57 stories of offices, running up into a tower, 808 feet high, as compared with 789 feet at the Woolworth

EDITORIAL NOTES

Frederick Leopold Hill, a young architect of fine promise, late of the firm of Hill & Walls, Real Estate Trust Building, died suddenly on Saturday, April 21. Mr. Hill, who was widely known and esteemed, was an instructor for some time at Drexel Institute.

* * *

E. J. Berlet, President of the Walnut Street Business Men's Association, has launched a campaign having for its object the persuading of the Master Builders' Exchange to build its new home and exhibit building in the Walnut street section. The Berlet plans contemplate a modern office building to house architects, material men, builders and others having relations with the Exchange on the upper floors and with ample accommodations on the lower floors for every activity of the Exchange and its officials.

* * *

The Otis Elevator Company is now occupying new and commodious quarters in the Otis Building, at Sixteenth and Sansom streets, which, by the way, bids fair to become the centre par excellence for the architectural and building activities of Philadelphia. Many of the city's leading architects and builders have taken up their offices in the new Otis Building, together with a considerable delegation of prominent material and equipment concerns. The Otis Elevator Company has issued an attractive booklet showing half-tone cuts of its new offices. Vice-President Godfrey R. Rebbman, of the Otis Company, is a live-wire executive and is bagging a record business for the Otis concern.

* * *

It costs \$980 a year for a family of five to live in New York City, as compared with

\$840 in 1915, according to a report of the Bureau of Personal Service of the Board of Estimate. In the expenditure allotment \$16 a month is devoted for the rent of a four-room apartment. The Bureau finds that the cost of actual necessities of life is to-day 16 per cent. more than that of two years ago.

* * *

The war tax on steel may total \$65,000,000 in 1917, according to the estimate of Elbert H. Gary, chairman of the United States Steel Corporation, who derived these figures through the application of present laws, without reference to the possible new tax levies. "The burden which will be imposed by the Government on corporations and individuals," declared Judge Gary, "will undoubtedly be very large. No loyal citizen can object to these taxes, if they are equitably distributed." This, namely, equitable distribution of the new taxes, will be one of the principal problems to be met as the war progresses. American business genius and her ability to overcome apparently insurmountable obstacles encourages the belief, however, that the concentration of the best American thought on this subject will eventually be rewarded by a satisfactory solution.—Exchange.

* * *

Alfred Peter, architect, 238 Washington street, Newark, N. J., will move his office on May 1 to 828 Broad street, Newark.

* * *

The demand for structural steel for the construction of manufacturing plants is still extremely heavy, with the majority of inquiries from this source coming for the erection of new additions to shipyards, piers and pier sheds, transmission towers, power houses, and

Building, New York. Two aeroplane landings 50 feet wide by 620 feet long, will be located on the roof, according to the architect.

C. V. Merrick, architect, formerly of 51 State street, Albany, has moved to 25 Washington avenue, Albany.

Sarco Co., Inc., manufacturer of the Sarco line of steam traps and temperature regulators, has added Buffalo, N. Y., to its list of branch offices. The new office is located at 325 Elliott Square and is under the management of F. D. Harger, M. E.

The Royal Institute of British Architects will this year present the Royal Gold Medal to Monsieur Henri Paul Nenot, member of the Institute of France, Honorary Corresponding Member of the Royal Institute of British Architects, Honorary Corresponding Member of the American Institute of Architects, and Inspector General of Public Buildings and National Palaces in France. M. Nenot was awarded the Prix de Rome in 1877, and is perhaps best known as the designer of the buildings for the University of Paris, the new Sorbonne. The announcement of the nomination was made at the special meeting of the R. I. B. A. in March, and the medal will be presented in June. The award has an especial significance at this moment, inasmuch as M. Nenot fought against Germany in the war of 1870.

The Department of the Art Jury of the city of Philadelphia is inviting the members of the Federal Commission of Fine Arts and of the State and Municipal Departments of Art of the United States, to a conference to be held in Philadelphia on May 15. This will be the second conference of such bodies, the first having been held three or four years ago on the invitation of the New York Art Commission. The morning session will be held in Mayor Smith's reception room, City Hall. Those attending the conference will then be taken in motors to Lynnewood Hall, the residence of Mr. Joseph E. Widener, president of the Art Jury, who will entertain them at luncheon. The afternoon session will also be held in Lynnewood Hall. Those attending the conference will be guests at dinner at the Ritz-Carlton. The first municipal departments of this kind were appointed in New York and Boston in 1898. In addition to the National Commission of Fine Arts there are now five State Art Commissions and about twenty-five municipal ones.

The union shop and a 44-hour week has been agreed to by the Cramp Company, builders, who have signed an agreement with the Cement, Asphalt and Composition Floor Layers' Union. The new rate is 55 cents an hour, time and one-half for overtime, double time for Saturday afternoons, Sundays and legal holidays.

The National Machine Tool Builders' Association will hold its spring meeting at the Hotel Sinton, Cincinnati, Ohio, May 21-22.

The Executive Committee of the Board of Directors of the American Institute of Architects has accepted an invitation from the Georgia Chapter to hold its May meeting in Atlanta. To derive the fullest benefits for architects throughout the Southern States in this section of the country, and in order that the members of the profession generally in the South may become better acquainted with the officers of the Institute, the Georgia Chapter most cordially invites them to meet with it in Atlanta on Friday evening, May 18, and on Saturday, May 19.

On Friday evening, May 18, there will be an informal dinner for the Chapter and its guests at a cost of \$2, and on Saturday morning the entire party will be shown in and about Atlanta. Details concerning the exact time and place of the dinner will be announced later. Intention to attend should be communicated to Mr. William J. J. Chase, secretary, Georgia Chapter, 1033 Candler Building, Atlanta, Ga. If so requested, Mr. Chase will make reservations at the Georgian Terrace Hotel, which is to be the headquarters for the meeting.

Mr. Thomas C. Young, of Eames & Young, St. Louis, and Mr. Alfred H. Granger, formerly of Frost & Granger, Chicago, will be associated for the practice of architecture after April 1, as Eames & Young, Wright Building, St. Louis, and Granger & Young, 332 South Michigan avenue, Chicago.

The American Society for Testing Materials will hold its twentieth annual meeting at Atlantic City, at the Hotel Traymore, June 26 to 30, inclusive.

Mr. W. Carby Zimmerman, Chicago, announces the new firm of Zimmerman, Saxe & Zimmerman, with offices at 64 Van Buren street. The new partners are Mr. R. W. Zimmerman and Mr. Herbert Moore Saxe.

The New Jersey State Association of Master Plumbers will hold its annual convention at Elks Hall, Jersey City, N. J., May 15-17.

Probably the finest auxiliary signal corps in the country is being quietly and unostentatiously supplied to the Government by the American Telephone and Telegraph Company. The company has consented to pay the difference between the Government stipend and the present salaries of five hundred trained engineers, so that the men will be afforded an opportunity of assisting in highly specialized field work for the Government without suffering any financial loss. This is but one of the many individual contributions of public-spirited corporations that exemplify and glorify American patriotism.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

The business man who grudges a commission to an advertising agent who thinks "he can do it himself" is usually about as intelligent as he would be if he grudging the commission of the architect and decided to build his store for himself.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

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THE ANNUAL REPORT OF THE AMERICAN ACADEMY IN ROME.

The report of the Executive Committee of the Academy reviews the question of finances and sets forth the need for further endowment of the Academy. It is pleasant to note that Mr. Morgan has generously offered to cancel the Academy's debt to him, by an amount equal to any sum which shall be paid in for endowment, and to learn of the Fellowship in Architecture endowed by Mr. William R. Mead, and the Fellowship, of which the character is left to the determination of the Academy, made possible through the contribution of Mr. A. W. Mellon. In closing its report, the Executive Committee says:

"It will not be amiss to indicate ways in which Academy influence may be strengthened and brought into closer contact with American educational life. The American Institute of Architects has already manifested officially its growing appreciation of our potentiality; were its Committee on Education charged with the duty of reviewing our work and reporting thereon to the Institute, this appreciation would doubtless grow even faster. The Association of Collegiate Architectural Schools is concerning itself very seriously with educational standards and methods, in which it co-operated with the Institute; since it is from these schools that we must draw our Fellows, here is a movement closely affecting us. In those schools, not only practitioners but teachers of the art of architecture must be developed. It is conceivable that in conference with the Association representing them, plans might be worked out for including one somewhat like that between the Contributing Colleges and the School of Classical Studies, of much benefit to the Schools of Architecture, to the Academy, and hence ultimately to American Art."

These suggestion would seem to disclose large opportunities, and they will doubtless receive careful consideration.

In the report of Mr. Stevens, Director of the School of Fine Arts, it is interesting to note that the campaign of the Institute toward a common-sense public building policy for the United States found an echo in the work which the School did in making a report upon the public building policy of the Italian Government. Also, we may all share Mr. Stevens' hope that the close of the war will make it possible to undertake the excavation of an ancient site, thus broadening the interest and influence of the Academy.

The report of the Director, Dr. Carter, gives one an intimate picture of the Academy in war-time, and of Rome devoid of tourists—"the City come into its own again, the 'contadini' as visitors 'seeing Rome first,' peasants from the Abruzzi and Sardinian fishermen in full costume on the Corso, the Pantheon admired by the people of Calabria, the Forum visited by peasants from Scanno." The Villa Mirafiore is now a training school

with workshops for the soldiers who have lost arms or legs. Student travel and taking of measurements and photographs have become almost-impossible under war conditions, and yet the Academy has continued its work, with even two more students than in the previous year.

"We thus step forward," says the report, "into the new year, with our budget still further cut, grimly determined to make it go, but we have a steadily growing conviction that we have reached the limit of our economies. So long as the war lasts and our work cannot be seen face to face, it may be difficult to cause others to share this conviction; and yet, somehow, we feel that things are about to change, and that our great and prosperous country will soon take a proper pride in what we are doing and what we stand for, and that we shall soon be able to carry out the dreams of our founders, occupying all of our properties to the universal service of Art and Letters and the glory of our country in a foreign land."

Of all the agencies which are silently at work tearing down the barriers of race and country between men, surely none is more worthy of generous support than the American Academy in Rome, for it works in a language which is universal and over the manifestations and interpretations of which men are forever at peace.—"Journal of Institute."

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

One secret that has been fairly well kept is the secret of success. Strange, too, when so many people are anxious to tell about it.

Read "The Guide." Read it all through. Don't let a single item escape your notice. You'll be surprised what a lot of valuable information is crowded into its pages in the course of a year.

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

Are you a regular subscriber to "The Guide"?

Many a man has a "Do It Now" motto over his desk and cobwebs on his brain and dust on the desk.

Even the best piece of machinery gets a hot bearing once in a while.—Ex.

INSTITUTE AND CHAPTER MEMBERSHIP.

The Secretary of the Institute has issued a circular letter to the Secretaries of all Chapters in which the following explanation of Institute and Chapter membership are set forth:

Chapter members, as of December 8th, 1916, retain their standing and will continue to be known as Chapter members. They may be admitted into the Institute as provided in the by-laws, but no new Chapter members are henceforth permissible. Each Chapter has the right to create a class known as Associates of the Chapter, but those who enter that class must agree to make application for admission to the Institute within three years of their admission to associateship with the Chapter, will have no vote upon Institute affairs during their associateship, and failing to enter the Institute within the prescribed period, will automatically forfeit their affiliation with the Chapter.

Applications for such associateship cannot be made until the Chapter creating such a class has amended its constitution and by-laws to conform with the mandate of the last convention which abolished further Chapter memberships, and provided that the associate class might be established by any Chapter which so wished.

It is no longer necessary, however, for an intending applicant for Institute membership to be affiliated with or belong to a Chapter. Application for admission to the Institute may be made direct to the Institute, in which case the application follows the prescribed routine. If elected, the new member is assigned to the Chapter in the territory of which he practises, or, upon request, to the Chapter in the territory of which he resides. From the foregoing it will be seen that the Chapters will ultimately be composed of Institute members and associates of the Chapter.

Institute members will be transferred, in the future, from one Chapter to another as follows: The member will obtain the usual credentials from the Secretary of the Chapter which he is leaving, forward them to the Secretary of the Institute, and receive therefrom an assignment to the new Chapter.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted

"Do what you are paid to do—and then some—it's the then-some that gets your salary raised."—James B. Miller.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory, northwest corner of Fourth and Cambria streets, Philadelphia. Architects, Furness, Evans & Co., Franklin Bank Building, Philadelphia. Owners, Stead, Miller & Co., on premises. Brick and concrete, 6 stories, 60x90 feet, slag roof, cement and plank floors, metal lath, fire doors (plumbing, electric work, steam heating, elevators reserved). Architects will sub-let.

Store Building, southwest corner of Fifteenth and Chestnut streets, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Martin E. Greenhouse, 114 South Fifteenth street, Philadelphia. Lessees, Bonwit, Teller & Co., Thirteenth and Chestnut streets, Philadelphia. Brick, stone, terra cotta, reinforced concrete, 8 stories and basement, 79x138 feet, steam heat reserved), electric lighting, tile and marble work, fire and kalamain doors, hollow metal sash, maple floors, metal lath, 4 elevators, metal window guards, waterproofing and dampproofing, ornamental iron work. Architect taking bids, due May 5th. Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Warren, Moore & Co., Commercial Trust Building, and Turner Concrete Steel Co., 1713 Sansom street, are figuring.

Maternity and Dispensary Building, 1234 North Fifty-fourth street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, West Philadelphia General Homoeopathic Hospital, on premises. Brick and concrete, terra cotta trim, 2 stories and basement, 36x80 feet, slag roof, cement floors, metal lath, tile and marble work (steam heating and electric work reserved). Architects taking bids, due May 8th. Mowrer Bros., Merion, Pa.; Charles C. Pace, Merion, Pa.; Fred C. Borel, 5426 Vine street; Driscoll Co., Stock Exchange Building; Graham-Campion Co., Otis Building; Ketchum & McQuade, 1029 Brown street; Stacy Reeves & Sons, 2011 Market street; Wark-Yardley Co., 1737 Filbert street; Wm. R. Dougherty, 1610 Sansom street; James H. Wells, Otis Building; Chas. McCaul Co., 1713 Sansom street; I. T. Shoemaker, 1324 Walnut street; T. C. Trafford, 1613 Sansom street, and W. O. Springer, 1624 Latimer street, Philadelphia, are figuring.

Department Store (add.), Seventh and Filbert streets, Philadelphia. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, Lit Brothers, Eighth and Market sts., Philadelphia. Brick, stone, reinforced concrete and terra cotta, 7 stories, slag roof, 80x256 feet, (steam heating, electric work, plumbing, elevators reserved), maple, cement and terrazzo floors, tile and marble work, hollow metal skylights, store fixtures, safety treads, waterproofing. Plans completed. Architects ready for bids in a few days.

Country House, 416 Moreland ave., Chestnut Hill, Pa. Architect, Mrs. Nathan A. Taylor,

W. Mermaid lane, Chestnut Hill, Pa. Stone, 2 stories, 140x25 feet, slate roof, hot water heating, hardwood floors, electric lighting, tile work. Architect taking bids, due May 3d. P. E. Wallace, 1220 Chancellor street; H. H. Barrell, 206 S. Quince street; Fred Elvidge & Sons, 5522 Germantown avenue; Wm. J. Grubler Co., 219 E. High street; John E. Wait, 204 E. Willow Grove avenue, and Alfred James, Bala, Pa., are figuring.

Wagon Shop (add.), N. W. cor. Glenwood and Columbia avenues. Architect, private plans. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick, reinforced concrete, 2 stories, 160x64 feet, slag roof, gum floors (heating and lighting reserved) (1) freight elevator. Owners have received bids.

Residence and Store (alt. and add.), 6133 Woodland avenue. Architect, H. M. Pedrick, Lansdowne, Del. Co. Pa. Owner, G. Grosso, 6132 Woodland avenue, Philadelphia. Brick, 2 stories, 13x16 feet, slag roof, pine floors, electric lighting, marble and terrazzo work, ornamental iron work. Owner has received bids.

Sales Station, Garage, Boiler Room, Office and Platform, Llanerch, Pa. Architect, private plans. Owners, The Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Stone, concrete, terra cotta, tile and brick, 1 story, 70x26 feet, 14x10 feet, 21x17 feet, 38x20 feet, slag roof, concrete and pine floors, steam heating, electric lighting, tile work, hollow metal sash and doors, fire doors, metal lath, roof ventilators, waterproofing, wire work, ornamental iron work. Owner, care of R. D. Leonard, have received bids.

Residence, Germantown. Architect, John Emlen Bullock, 6439 Greene street, Germantown. Owner, Graige M. Watt, care architect. Terra cotta and tile or stone, 2½ stories, 29x45 feet, shingle roof, vapor heating, combination lighting, oak floors, tile work. Architect has received bids.

Store (alt.), 905-07 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Corsin Bros., 1402 South street, Philadelphia. Consists of new front, marble and slate, hardwood floors, composition and yellow pine floors, steam heating, electric lighting. Architect taking bids, due May 3d. The following are figuring: Freund Const. Co., Bulletin Building; Lam Building Co., 1001 Wood st.; Smith-Hardican Co., 1606 Cherry street; Geo. H. Frank, 1113 Cherry street; B. Bornstein, 1510 N. Franklin street, and Raith Const. Co., 804 Master street.

Auto Show room and Garage, Broad and Ontario streets. Architect, private plans. Owner, Charles N. Forsyth, 3417 North Sixteenth street, Philadelphia. Brick, steel and concrete, 3 stories, 50x100 feet, and 1 story, 50x100 feet, slag roof (gasoline storage system reserved), cement and pine floors, steam

heating, electric lighting, tile work, rolled steel sash. Revised plans completed. Owner ready for bids.

Recreation Buildings, League Island Park, Philadelphia, \$120,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works, care of Geo. E. Datesman, Director, City Hall. Bandstand, comfort building, 48x17 feet; boathouse and pavillion, 185x49 feet; overlook, 55 feet diameter, 1 story, brick, stone, steel and terra cotta, tile and slag roofs, cement, slate and wood floors, tile and marble work, metal lath (plumbing, heating, electric work separate bids). Plans completed. Owners ready for bids, due May 11th. Plans may be obtained from architect at his office.

Box Factory (add.), Tioga and Memphis streets, Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, Treon Box Co., on premises. Brick, 2 stories, 51x101 feet, slag roof (elevator, electric lighting, heating reserved), cement and maple floors, rolled steel sash and hollow metal skylights, fire and kalamain doors, fire escapes, metal window guards, waterproofing, wire work. Architect has received bids.

Service and Display Building, Fortieth and Walnut streets, Philadelphia. Architect, W. G. Wilkins, Pittsburgh, Pa. Owners, Atlantic Refining Co., 3144 Passyunk avenue. Granite, brick, hollow tile and terra cotta; service building, 1 story, 28x19 feet, irregular, display building, 1 story, 22 feet diameter, terra cotta roof (heating, plumbing, electric work and fixtures, gasoline storage system reserved), cement and tile floors, metal lath, copper covered doors and windows, hollow metal skylights. Owners have received revised bids.

Grading and Paving, various streets, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Highways, Dept. of Public Works, Geo. E. Datesman, Director, City Hall, Hall, Pa. Consists of grading, paving with asphalt, black (vitified, granite and wood), macadam and concrete, oiling and concrete curbing. Owners have received bids.

Store (alt.), 4323 Lancaster avenue, Philadelphia, \$2,000. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, Wm. S. Hitchner, on premises. Brick, alt. to first floor, (electric lighting reserved), steam heating, hollow metal sash, pine floors. Architects have received bids.

Factory, 4351-59 Orchard street, Frankford, Philadelphia. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owners, Wallace Wilson Hosiery Co., Orchard below Unity street, Frankford. Brick (slow burning) 2 stories, 40x120 feet, slag roof, cement and maple floors, fire escapes. Plans completed. Architect ready for sub-bids.

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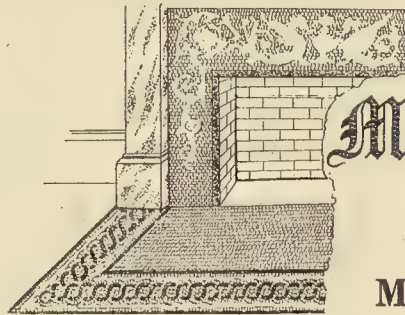


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Offices and Apartment House, 314 South Broad street, Philadelphia. Architect, H. D. Prettyman, 2603 South Broad street, Philadelphia. Owner, C. B. Prettyman, 609 Real Estate Trust Building, Philadelphia. Brick and stone, 5 stories, 24x130 feet. Plans in progress. Details of construction not decided.

Store, 5317 Germantown ave. Architect, Addison H. Savory, Stephen Girard Building, Philadelphia. Owner, Chas. Y. Scully, 5352 Germantown avenue. Brick, 2½ stories, 37 x50x90 feet. Plans in progress. Too early for details.

Garage, 800-04 North Carlisle street, Philadelphia. Architect, private plans. Owner, L. S. Hall, 1402 Ridge avenue, Philadelphia. Brick, 2 stories, 48x75 feet, slag roof, cement floors, rolled steel sash, hollow metal skylights, (1) elevator, roof ventilators. Owner taking bids, due May 5th. Henry P. Schneider, 3713 Old York road; McCloskey & Bahls, 1620 Thompson street; S. B. MacDowell & Son, 1927 Montgomery avenue, and Mutual Eng. Co., Franklin Building, are figuring.

Battery Building, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Dept. of Wharves and Docks, F. R. Harris, chief, Washington, D. C. Frame, concrete foundation, 1 story, 41x44 feet, asphalt roof, concrete floors, roof ventilators. Owners have received bids.

Residence (alt. and add.), 2019 Walnut st., Philadelphia. Architect, Edwin H. Fetterolf, 1524 Chestnut street, Philadelphia. Owner, Dr. Edmund B. Piper, 1305 Pine street, Philadelphia. Brick, 5 stories, 2 story addition (rear), 13x40 feet, slag and tin roof, cement and pine floors, (1) dumbwaiter, tile and marble work (electric work and heating reserved). Architect has received revised bids.

Club House and Rifle Range (alt. and add.), northeast corner of Eighteenth and Filbert streets, Philadelphia. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad (Broad St. Dept. of Y. M. C. A.), Broad Street Station. Brick, 2 stories, 53x73 feet and 68x34 feet, tin roof, cement and pine floors (hot water heating, electric work reserved), marble work, sheet metal work, millwork, hollow metal skylights, metal window guards. Owners have received revised bids.

Store Building (alt.), 1806 Market street, Philadelphia, \$5,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Dwight S. Fuller Estate, 10 S. Eighteenth street, Philadelphia. Alterations to first floor, steam heating, electric lighting, tile, marble and terrazzo work, metal lath, store fixtures, metal bulks. Architects taking bids, due May 4th. Hogg Const. Co., 1634 Sansom street; George Hill, 2248 Wharton street; R. W. Strode & Sons, 12 North Nineteenth street; Wm. R. Dougherty, 1610 Sansom street; Stacy Reeves & Sons, 2011 Market street; Smith-Hardican Co., 1606 Cherry street; Conneen Const. Co., 1737 Filbert street; John W. McShain, 1610 North street; Jacob Myers & Sons Co., Witherspoon Building, are figuring.

Feed House and Stock Pens (8), Second and Pike streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway,

Reading Terminal, Philadelphia. Feed house, brick, 1 story, 12x16 feet; stock pens, frame and timber, slag roof, wood floors, plumbing, painting. Owners taking bids, due May 7th. Fred A. Havens & Co., 845 North Nineteenth street; Metzger & Fisher, Denekla Building, and Mitchell Bros., 2125 Race street, are figuring.

Residence, Lincoln Drive and Germantown avenue, Germantown, \$30,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owner's name withheld. Hollow tile and plaster, 2½ stories, 60x75 feet. Sketches completed. Too early for details.

Storage Building, 42-46 North Delaware avenue. Architect, Otto C. Wolfe, Thirty-first and Jefferson streets, Philadelphia. Owners, Armour & Co., 917 Noble street, Philadelphia. Brick and stone, 2 stories, 49x134 feet, slag roof, pine and cement floors (lighting reserved), tile work, hollow metal skylights, fire doors, ornamental iron work, hollow tile, elevators, waterproofing, wire work. Owners taking bids, due May 5th. Wm. R. Dougherty, 1610 Sansom street; H. E. Baton, Twelfth and Sansom streets, and A. R. Raff Const. Co., 1635 Thompson street, are figuring.

Church and Sunday School, Haverford avenue and Robinson street. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners, Hope German Reformed Church, Edw. F. Wessler, 1324 North Robinson street. Stone, 1 and 2 stories and basement, 94x74 feet, slate roof, pine and cement floors, vapor or steam heating, electric lighting. Architect taking bids, due May 3rd at noon. Nickson-Duggan Const. Corp., 1218 Chestnut street, are figuring, in addition to those reported.

Residences (4), near Upsal Station, Germantown, Philadelphia. Architect, private plans. Owner, H. B. Shoemaker, 1309 Walnut street. Stone and brick, 2½ stories, 40x25 feet, slate roof, pine floors, hot water heating, electric lighting, tile work, metal lath (lighting fixtures reserved). Owner taking bids, due as soon as possible. I. T. Shoemaker, 1324 Walnut street, is figuring (only bidder).

Store and Apartments (alt. and add.), 219 South Broad street, \$50,000. Architect not selected. Owner, W. E. Adams, on premises. Brick and stone, 4 and 3 stories, consists of general alterations and changing upper floors into sleeping apartments. Work contemplated for summer of 1917.

Motion Picture Theatre (alt. and add.), northwest corner of Fiftieth and Market sts. Architect not selected. Owners, Stanley Amusement Co., 1214 Market street, Philadelphia. Brick and stone, 1 story. Extensive improvements are contemplated. Details not yet decided.

Office Building (add.), Forty-ninth and Market streets, Philadelphia. Architect, private plans. Owners, Chilton Printing Co., on premises. Brick and terra cotta, second story addition, 32x130 feet, slag roof, maple floors, rolled steel and hollow metal sash. Plans completed. Owners ready for bids.

Garage, northwest corner of Seventh and Spring Garden streets, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Very Best Garage Co., care of Mr. Berger & Co., northeast corner of Seventh and Green streets. Reinforced con-

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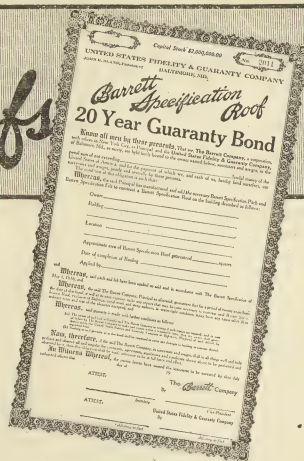
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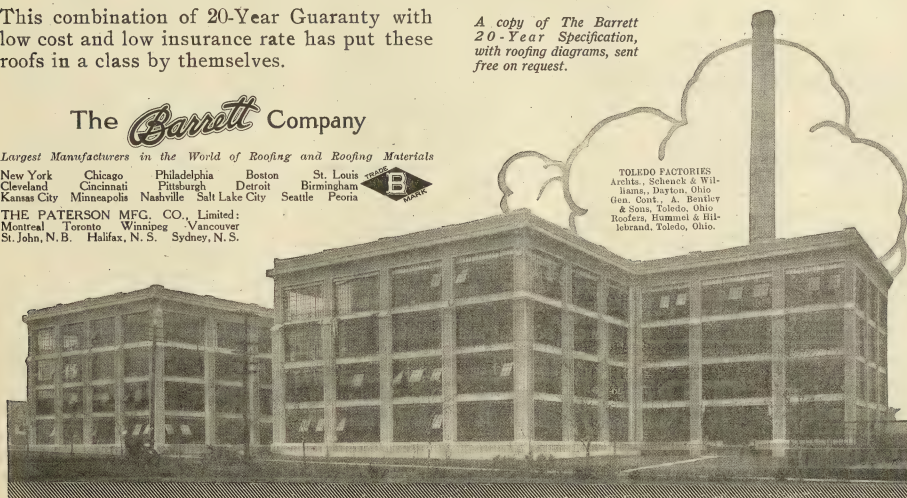


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crete and brick, 4 stories, 78x88x115 feet, slag roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement floors, metal lath, 2 elevators, water-proofing. Plans about completed. Architect will take bids in a few days.

Church and Sunday School (fire repairs), Walnut street, below Fortieth street. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Walnut Street Presbyterian Church, Rev. J. A. MacCallum, pastor; Morris Williams, chairman Building Committee, Commercial Trust Building. Stone and brick, hollow tile, 1 and 2 stories and basement, 70x164 feet, slate and tin roof (tile aisles, chancel furniture, lighting fixtures, steam heat, electric light, tile and marble work, rolled steel sash, metal lath. Architect taking bids, due May 14th. F. L. Hoover & Sons, 1023 Cherry street; A. R. Ruff Const. Co., 1635 Thompson street; James Johnston, 1721 Ludlow street; A. H. Williams' Sons, 419 Locust street; Jacob Myers & Sons Co., Witherspoon Building, and Henry P. Schneider,

3713 Old York Road, Philadelphia, are figuring.

Building No. 2, Thompson and Aramingo streets. Engineer, H. G. Hill, care of John T. Lewis Bros. & Co., 2545 Aramingo street. Owners, John T. Lewis & Bros. Co., Lafayette Building, Philadelphia. Brick, 3 stories, 136x39 feet, slag roof (elevators, lighting and heating reserved), concrete and pine floors, hollow metal sash, rolled steel skylights, fire doors, metal lath, wire work. Owners taking bids, due May 14th. Irwin & Leighton, 126 North Twelfth street, are figuring.

Church, Twenty-eighth and Lehigh avenue, Philadelphia. Architects, Street & Stackhouse, 129 South Fifth street, Philadelphia. Owners, Northwest Baptist Church, care of Rev. W. Dallas Cope, 4425 North Eighteenth street. Stone, 1 story, 74x80 feet, slate roof, pine floors, electric lighting. Architects taking bids, due May 2nd. D. Diminco & Bro. and Howard Niewig, care of architects; Antonio Mogavero, 13 Wiehle street, Manayunk, and P. Nardy & Co., 1228 Fitzwater street, Philadelphia, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), 1605 Allegheny avenue, \$2,000. Architect, private plans. Owner, J. P. Mathieu, on premises. Copper bay extension, 2 stories, 12x12 feet, addition, copper roof, electric lighting, tile work, metal lath. Contract awarded to Geo. Kessler Const. Co., Drexel Building.

Factory, 1220-22 Buttonwood street, Philadelphia, \$43,000. Architect, Herman Miller, Crozer Building, Philadelphia. Owners, F. Weber & Co., 1125 Chestnut st., Phila. Brick (slow burning), 5 stories and basement, 42x150 feet, slag roof, steam heating, electric lighting, maple and cement floors, hollow metal sash, fire doors and kalamein doors, hollow metal skylights, hollow tile, metal lath, (1) elevator, safety treads, metal window guards, waterproofing. Contract for mason, brick, stone, carpenter and mill work awarded to Freund Const. Co., Bulletin Building.

Apartment House, north side of Race street, west of Thirty-fourth street, \$33,000. Architect, Albert F. Schenck, Real Estate Trust Building. Owners, Stein Realty Co., 3409 Race street, Philadelphia. Brick and plaster, 3 stories, 40x88 feet, slate and tin roof, oak floors, tile and marble work, fire doors (vapor vacuum heating, plumbing, electric work and fixtures reserved). Contract awarded to P. Haibach Const. Co., Twenty-sixth and Thompson streets.

Sunday School, Third and Tabor road, Ol-

ney, Philadelphia, \$70,000. Architects, Duh-ring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owners, First Presbyterian Church of Olney, care of W. H. Wells, 232 Tabor road, Philadelphia. Stone, 1 story, 113x56 feet, slate and slag roof, maple and cement floors (electric work, plumbing and heating reserved), metal lath, rolled steel skylights, ornamental iron work. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street.

Primer and Detonator Dry House, Frankford Arsenal, \$51,000. Architect, private plans. Owners, U. S. Govt., care of Col. Geo. Montgomery, Frankford Arsenal. Reinforced concrete, Gypsum block, 1 story, 50x24 feet, cement roof (heating and lighting and plumbing reserved), concrete and composition floors, waterproofing. Contract awarded to Ketcham & McQuade, 1029 Brown street.

Patrol Garage and Completion of Fire House and Police Station, Hunting Park avenue and Schuyler street, \$13,000. Architects, Simon & Bassett, 1112 Chestnut street. Owners, City of Philadelphia, Dept. of Public Safety, City Hall. Brick, 1 story, 30x40 feet, tile roof, cement floors, metal lath, metal lockers (plumbing, heating and electric work separate bids). Contract awarded to H. H. Wahmeyer, 1004 W. Lheigh avenue.

Schools (2) (alt. and add.), Ninth and Lindley avenue and Rhawn and D streets. Architect, J. Horace Cook, Nineteenth above Chest-

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nut street, Philadelphia. Owners, Board of Education, care of Wm. Dick, secretary, Nineteenth street, above Chestnut street. Brick and stone, 2 and 3 stories, 42x92 feet and 88x33 feet, composition and slate roof, electric lighting, heating, marble work, rolled steel sash and skylights, fire doors, cement and maple floors, hollow tile, metal lath, roof ventilators, metal weatherstrips, waterproofing, wire work. Contract for Ninth and Lindley avenue awarded to Melody & Keating, 1322 Race street, \$53,848; contract awarded to H. H. Wehmeyer, 1004 West Lehigh avenue, for Rhawn and D streets, \$39,429.

Garage, 1310-12 North Fourth street, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Harris Brody, 1322 North Fourth street, Philadelphia. Brick and steel, 2 stores, 40x180 feet, slag roof, electric light, steam heating, electric elevator, iron skylights, ventilators, wire glass. Contract awarded to A. Shestack, 520 Reed street, Philadelphia.

Garage and Manufacturing Building, Bridesburg, Philadelphia, \$17,500. Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford, Philadelphia. Owners, Chas. Lennig & Co., Inc., 112 South Front street, Philadelphia. Brick, hollow tile and plaster, 1 story, 55x35 feet and 60x200 feet (heating, electric work, plumbing, gasoline storage system, cement floors reserved), slag roof, metal lath, rolled steel sash and hollow metal windows. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

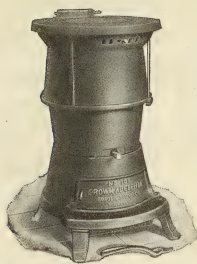
Garage, Gravers lane, Chestnut Hill, Philadelphia. Architects, Chas. K. Willing and Furness, Evans & Co., Franklin Bank Building. Owner, Wm. L. Barclay, on premises. Stone, 1½ stories, 22x28 feet, slate roof, cement floors, electric lighting (heating and plumbing reserved). Contract awarded to Wm. H. Carr, 5911 Germantown avenue, Philadelphia.

Office Building (add.), 212-14 South Tenth street, Philadelphia, \$8,000. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Horn and Hardart Baking Co., 210 South Tenth street, Philadelphia. Brick, 2 stories, 38x88 feet, tin roof, steam heating, electric lighting, pine floors. Contract awarded to Harry R. Rust, 19 South Eighth street.

Piers (alts.), 46-48-53-55-57 South Delaware avenue, Philadelphia. Architect, private plans. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Repairs to wood piles and floors. Contract awarded to Latta & Roberts, Drexel Building, Philadelphia.

Factory, No. 5, Keystone and Cottman sts., Philadelphia, \$16,000. Engineer, H. C. Eisenbise, Penna. Building, Philadelphia. Owners, L. H. Gilmer Co., on premises. Brick (slow burning), 2 stories, 44x100 feet (heating and electric work reserved), slag roof, maple and plank floors, rolled steel sash. Contract awarded to Nickson-Duggan Const. Corp., 1818 Chestnut street, Philadelphia.

Residence, Green and Westview streets, \$11,690. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owner, Clarence B. Lane, 6924 MacCallum street, Philadelphia. Hollow tile and plaster, 3 stories, 28 x42 feet, slate roof, hot water heating, electric lighting, hardwood floors, (2) tile bathrooms.



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Contract awarded to Clement E. Lloyd, Jr., Eighth street and Sixty-sixth avenue, Oak Lane, Philadelphia.

Office Building (int. alt.), 1219-23 Vine st., Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street. Owner, Claude S. Jarvis, 257 North Twelfth street, Philadelphia. Brick and reinforced concrete work, cement floors, electric lighting, Macite partitions, metal lath, kalamein doors, store and office fixtures. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

Sub-station, Hunting Park avenue, Fox and Marston streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Phila. Electric Co., Tenth and Chestnut streets. Reinforced concrete, brick and stone, 1 story, 145x134 feet, slag roof, cement floors, tile and marble work, hollow metal sash, rolled steel skylights, fire doors, metal lath, metal window guards, waterproofing (heating and electric work reserved). Contract awarded to John R. Wiggins & Co., Otis Building, Philadelphia.

Department Store (add.), 2004-12 North Broad street, \$45,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, James B. Gillies, 2200 North Broad street. Brick and steel, 2 stories and basement, 71x89 feet, slag or composition roof, hardwood, pine and cement floors (plumbing, heating, electric work and (1) elevator reserved), tile and marble work, rolled steel sash, hollow metal skylights, fire doors, store fixtures, metal lath, roof ventilators. Contract awarded to B. Bornstein, 1510 North Franklin street.

Store (alt.), 136 North Tenth street, Philadelphia, \$6,000. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street. Owner, H. S. Fulmer, on premises. Brick, new front, slag roof, pine floors, hollow metal skylights (heating, plumbing and lighting reserved). Contract awarded to Wolverson & Collins, 28 E. Willow Grove avenue.

Saloon and Hotel (add.), 116 South Fifteenth street, \$5,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, Margaret A. Kernan, northeast corner Fifteenth and Filbert streets. Brick, 2 stories, 18x62 feet, slag roof, pine and cement floors (plumbing, steam heating, electric work reserved), tile and marble work, metal lath. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Shop and Studio (alt.), 1524 Locust street, Philadelphia, \$5,000. Architect, C. Wharton Churchman, and E. J. Holmes, 1525 Locust street. Owner, Leroy Hemingway, 1615 Walnut street, Philadelphia. Brick, 3 stories (heating, electric work and interior decorating reserved), cement floors, tile and marble work, hollow metal sash and skylights, cement floors, metal lath, ornamental iron work. Contract awarded to Frank G. Stewart, 1619 Sansom street.

Garage, 3224 West Penn street, Queen Lane Manor, Philadelphia, \$1,500. Architect, Laurence Visscher Boyd, Harrison Building, Philadelphia. Owner, George C. Foedisch, on premises. Stone, 1 story, 22x32 feet (gasoline storage system, hot water heating reserved), slate roof, cement floors, electric lighting. Contract awarded to Wm. C. Wright, 22 Harvey street, Germantown.

PENNSYLVANIA

Construction News

Church, Reading, Pa. Architect, Frederick H. Brooke, Telegraph Building, Washington, D. C. Owners, Second Reformed Church, Reading, Pa. Stone, 4 stories addition, 30x 50 feet, slate roof, hot water heating, electric lighting, marble work, pine floors. Architect

taking bids, due May 5th. Pringle Borthwick, 8018 Germantown avenue, is figuring.

Paving and Sewers, Narberth, Montgomery County, Pa. Engineers, Albright & Mebus, 907 Land Title Building, Philadelphia. Owners, Borough of Narberth, H. D. Narrigan,

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chairman, Highway Committee, Narberth, Pa. 2400 feet cement paving and vitrified pipe sewers, manholes, etc. Plans may be obtained from engineers. Owners taking bids, due May 14th at 8 P. M.

Residence (add.), Lansdowne avenue, Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Frank H. Flier, on premises. Hollow tile and plaster, 3 stories addition, 20x30 feet, shingle roof, hot air heating, electric lighting, tile work, pine floors, metal lath. Plans completed. Architects ready for bids.

Garage, Second and Windsor streets, Reading, Pa. Architect, F. A. Muhlenberg, Colonial Trust Building, Reading, Pa. Owner, John A. Keppleman, on premises. Brick, 1 story, 30x30 feet, hot water heating, electric lighting, tin roof, cement floors. Plans in progress.

Public School (rebuilding), Slatington, Pa. Architect, Ed. Z. Scholl, 31 North Sixth st., Reading, Pa. Owners, School Board of Slatington, P. M. Snyder, Slatington, Pa. Brick, 2 stories and basement, 96x82 feet, slate roof, electric lighting, wood floors. Owners taking bids, due May 5th.

School and Auditorium, Fleetwood, Pa., \$5,000. Architect, F. A. Muhlenberg, Colonial Trust Building, Reading, Pa. Owners, School Board of Fleetwood, Fleetwood, Pa. Brick, 2 stories, slag roof, maple floors, electric lighting. Architect ready for bids.

Pumping House No. 2, West Chester, Pa. Architect, Nathan Rambo, West Chester, Pa. Owners, City of West Chester, West Chester, Pa. Stone, 1 story and basement, 25x12 feet, asbestos shingle roof, maple floors, roof ventilators (lighting reserved). Owners have received bids.

Parochial School and Convent, Coatesville, Pa. Architect, John A. Fisher, 3621 North Fifth street, Philadelphia. Owners, St. Stanislaus Polish Catholic Church, care of Rev. John Mickum, Coatesville, Pa. Brick and stone, 2 stories, 120x36 feet, slag roof (heating and lighting reserved), tile and marble work. Owners have received bids.

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Bank and Office Building, Coatesville, Pa. Architect, A. A. Ritcher, Sixth and Court sts., Reading, Pa. Owners, National Bank of Chester Valley, Coatesville, Pa. Stone and brick and concrete, 1 story, composition roof, vapor heating, electric lighting, metal lath and sash, waterproofing and dampproofing, fire doors, ventilators, tile and marble work, metal window guards, hardwood and tile floors, metal lockers, weatherstrips, cabinet work, terrazzo work. Owners taking bids, due May 12th at noon. The following are figuring: Irwin & Leighton, 126 North Twelfth street; Chas. McCaul Co., 1713 Sansom street; Warren-Moore Co., Commercial Trust Building; Metzger & Fisher, Dendula Building, Philadelphia; Beard Const. Co., Colonial Trust Building, Reading, Pa.; and W. J. Elliott, Coatesville, Pa., are figuring.

Bank Building (alts.), Patton, Pa. Architect, Henry L. Reinhold, Jr., 1309 Walnut st., Philadelphia. Lessees, First National Bank, Patton, Pa. Consists of alts. to first floors, marble partitions, tile floor, bank fixtures, ornamental iron doors, electric lighting and fixtures. Architect taking bids, due May 7th at noon. Standard Const Co., 1713 Sansom st.; Freund Const. Co., Bulletin Building, Philadelphia; Altoona Concrete Const. & Supply Co., and P. W. Finn & Son, both of Altoona, Pa.; Hyde Murphy Co., Ridgeway, Pa., are figuring.

Residence (alt. and add.) and Garage, Woolly lane, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Mrs. D. W. Blum, care of architect. Stone, frame and plaster, 2 stories addition, 30x13 feet, and 14x12 feet; garage, 1½ stories, 27x24 feet, shingle roof, hot water heating, electric lighting, cement and pine floors. E. J. Hedden, Finance Building, Philadelphia, taking sub-bids on revised plans.

School (add.), Rockledge, Montgomery Co., Pa. Architect, Christian H. Fries, 8129 Pine road, Fox Chase, Philadelphia. Owners, Board of Education of Rockledge, Montgomery Co., Pa. Stone and brick, 2 stories, 44x46 feet, slag roof, pipe and cement floors (heating, lighting, plumbing reserved), fire doors, roof ventilators. Lowest bidder: Jos. Ashby, Second street pike, Fox Chase, Philadelphia, \$9,200; H. H. Wehmeyer, 1004 Lehigh avenue, \$13,967.

Residence, Pine Grove, Pa. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owner, H. C. Gensemer, Pine Grove, Pa. Frame and stucco, 2½ stories, 32x90 feet, tile roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Factory Building, Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, W. Roland, Mulberry and Greenwich streets, Reading, Pa. Brick, 4 stories, 100x55 feet, slag roof, hot water or steam heating,

concrete and wood floors, metal lath, elevators. Plans completed. Owners taking sub-bids.

Foundry (add.), Oakbrook, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owners, Reading Knob Works, Oakbrook, Reading, Pa. Brick, 1 story, 50x50 feet, slag roof, cement floors, metal lath. Plans in progress.

Apartment House, North Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, name withheld. Brick, 3 stories, 23x75 feet. Plans in progress.

Store and Apartments, Reading, Pa. Architect, G. C. Freeman, Reading, Pa. Owners, Penta & Radazzo, Reading, Pa. Brick, 4 stories. Plans in progress.

Lodge Building, Boyertown, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, D. B. Bauer, Boyertown, Pa. Brick, 3 stories, 38x62 feet, slate roof, wood floors, hot water heating, electric lighting, tile work, metal lath, fire escapes. Plans completed. Owner will take sub-bids.

Factory Building (alt. and add.), Marian street, Reading, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owners, D. S. & W. Hosier Co., on premises. Brick, 4 stories, 40x40 feet, slag roof, steam heating, electric lighting, maple floors, metal sash, sprinklers, maple floors, (1) elevator. Plans completed. Architect taking sub-bids.

Residence (alt.), Chestnut Hill, Pa. Architects, Furness, Evans & Co., Franklin Building, Philadelphia. Owner, Edwards S. Dunn, 1117 Bethlehem Pike, Chestnut Hill, Pa. Brick and stone, 2½ stories (slate roofing, plumbing, heating and electric work reserved), pine floors, plastering, painting and pointing. Architects have received bids.

Church (alt. and add.), Bedford, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, St. Paul's Reformed Church, care of Rev. J. A. Eyer, Bedford, Pa. Brick, 1 story and basement, slate roof. Plans in progress.

Store and Apartments, Marcus Hook, Pa. Architect, E. Carby May, Dupont Building, Wilmington, Del. Owner, Covington Giles, Marcus Hook, Pa. Brick, 2 stories, 65x22 feet, tin roof, hot water heating, wood floors, electric lighting. Architect ready for bids.

Residence, Aronimink, Del. Co., Pa. Architect, Jos. V. Phelan, 5017 Chancellor street, Philadelphia. Owner, Daniel J. Stinson, 121 North Sixtieth street, Philadelphia. Brick and stone, 2 stories, 50x35 feet, slate roof, pine floors, hot water heating, electric lighting, marble work, metal lath. Owners taking additional bids, due May 4th. F. F. Wallace, 1220 Chancellor street; E. J. Kreitzburg, 1345 Arch street; M. Allee Erhold, Manhattan Building, are figuring.

Garage, Noble, Pa. Architects, Heacock & Hokanson, Bailey Building, Philadelphia.

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Owner, Wm. Craven, Noble, Pa. Hollow tile and plaster, 1½ stories, 32x24 feet, shingle roof, hot water heating, electric lighting, cement and pine floors, metal lath. Architects taking bids, due May 7th at noon. Specht & Sperry, Heed Building; W. John Stevens, Inc., Wyncoote, Pa., and Howard Trump, Noble, Pa., are figuring.

Drug Store (alt. and add.), Coatesville, Pa. Architect, private plans. Owners, G. W. Davy & Son, Coatesville, Pa. Brick, 1 story and mezzanine, 27x36 feet, slag roof (dumbwaiter, electric work, heating, store fixtures reserved), cement and pine floors, terrazzo work, hollow metal skylights, metal lath, metal ceilings. Owners taking bids, due May 4th. Pomeroy Const. Co., 1609 Ranstead street, are figuring.

Finishing Building, Chester, Pa. Engineer, George F. Hardy, 309 Broadway, New York City. Owners, Chester Paper Co., Chester, Pa. Brick and concrete, 3 stories and basement, 256x118 feet, slag roof, reinforced concrete floors. Engineer taking bids, due May 5th. Barely White & Co., 1713 Sansom street, are figuring.

Hotel (alt. and add.), East Fourth street, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Jerry McCarthy, South Bethlehem, Pa. Brick and stone, consists of general interior and exterior alterations. Plans completed.

Residence, South Bethlehem, Pa., \$10,000. Architect, David Levy, Buckley Building, Allentown, Pa. Owner, Samuel Weisenberger, South Bethlehem, Pa. Brick or hollow tile and stucco, 2 stories and basement, 35x30 feet and 14x11 feet, slate roof (vacuum steam heating, plumbing, tile work, lighting fixtures reserved), tile work, metal lath. Architect taking bids.

School House, Fountain Hill, Pa., \$30,000. Architect, E. H. Bitting, Wilber Trust Building, South Bethlehem, Pa. Owners, School Board, Borough of Fountain Hill, Pa. Brick, 2 stories, 80x48 feet, slag roof, steam heating, maple floors, electric lighting. Owners taking bids, due May 4th. Butz & Clader, Allentown, and Jacob Nagle, Allentown, Pa., are figuring.

Isolated Ward, Bethlehem, Pa. Architect, E. H. Bitting, Wilber Trust Building, South Bethlehem, Pa. Owners Children Home, South Bethlehem, Pa. Brick, 1 story and basement, 30x60 feet, slate roof, steam heating, electric lighting, yellow pine floors. Architect taking bids. Butz & Clader, Allentown, and George Nerding, Wilber Trust Building, South Bethlehem, Pa., are figuring.

Residence, South Bethlehem, Pa. Architect, John Van Pelt, 381 Fourth avenue, New York City. Owners, Kappa Alpha Fraternity, Lehigh University, South Bethlehem, Pa. Brick and stucco, 2 stories, 53x106 feet, electric lighting, tin roof, tile work, hardwood floors. Architect taking bids, due May 4th. In addition to those previously reported, George Nerding, Wilber Trust Building, South Bethlehem, Pa.; R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia, are figuring.

Residence, Pennsburg, Pa. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown. Owner, C. Q. Hillegass, Pennsburg, Pa. Brick, frame and stucco, 2 stories, 27x34 feet, shingle roof, heating undecided, wood floors. Plans in progress.

Store Front, Pennsburg, Pa. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown. Owner, C. Q. Hillegass, Pennsburg, Pa. Plans in progress.

Residence, Allentown, Pa. Architect, Robert E. Ochs, City Realty Building, Bethlehem,

Pa. Owner's name withheld. Frame, 1½ stories, 36x46 feet, green slate roof, hot water heat, electric lighting, wood floors. Plans in progress.

Cottage, Ninth avenue, Bethlehem, Pa., \$7,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, A. M. Weingartner, Bethlehem, Pa. Hollow tile and stucco, 2½ stories, 30x40 feet, shingle roof, hot water heating, electric lighting, hardwood floors. Plans completed. Owner will build.

Bungalow, Bethlehem, Pa. Architect, E. R. Bitting, Wilber Trust Building, South Bethlehem, Pa. Owner, Joseph Craig, Bethlehem, Pa. Brick, 1 story, 25x50 feet, shingle roof, hot water heating, wood floors. Plans completed. Owner taking sub-bids.

Store and Offices, Third and New streets, South Bethlehem, Pa. Architects, Jacoby & Weishampel, Commonwealth Building, Allentown. Owner, Mrs. Anna Caffery, Fourth and New streets, Bethlehem, Pa. Brick, 3 stories, 68x75 feet, slag roof (steam heating reserved), electric lighting, maple floors, metal bulks, iron stairs. Owner taking bids.

Residence and Garage, Bangor, Pa. Architect, E. H. Wenzelberger, Easton, Pa. Owner, Dr. L. M. Hackenbury, Bangor, Pa. Brick, 2½ stories, 27x50 feet, slate roof, vapor heating, electric lighting, tile work, hardwood floors. Architect will take bids in about ten days.

Garage and Apartments, Third street, South Bethlehem, Pa. Architect, E. H. Bitting, Wilber Trust Building, South Bethlehem, Pa. Owner, Thomas Quinn, South Bethlehem, Pa. Brick, 1 and 3 stories, 40x36 feet, slag roof, electric lighting, tile work, wood floors, gasoline storage system. Owner ready for bids.

Store (alt. and add.), 12 South Hanover street, Carlisle, Pa., \$6,000. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, Howman & Co., 314 Market street, Harrisburg, Pa. Marquise (2), 7x12 feet, electric lighting, tile and terrazzo work, hardwood floors. Plans in progress.

High School, Enola, Cumberland County, Pa., \$80,000. Architect, H. C. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Board of Education, Enola, Pa. Brick, 3 stories, 80x160 feet, slag roof, hot air heating, electric lighting, tile and terrazzo work, cement and pine floors, hollow tile, metal lath, roof ventilators, waterproofing and dampproofing. Plans in progress.

Store (int. alt.), Harrisburg, Pa., \$2,500. Architect, C. Harry Kain, 317 Chestnut street. Owners, Bowman & Co., 316 Market street, Harrisburg, Pa. Rest room, electric light, tile, marble and terrazzo work, hardwood floors. Architect supervising the work.

School (add.), South Waverly, Pa. Architect, A. P. Hildebeide, Commonwealth Trust Building, Harrisburg. Owners, School District of Waverly, Waverly, Pa. Brick, 2 and 1 stories, 60x52 feet and 52x52 feet, slate roof,

pine floors, steam heat, electric light, hollow metal sash. Owners will be ready for bids in ten days.

Factory, 435 South Eleventh street, Harrisburg, Pa., \$7,000. Architect, C. Harry Kain, 317 Chestnut street, Philadelphia. Owners, D. Bacon Co., 435 South Eleventh street, Philadelphia. Brick, 2 stories, 60x80 feet, slag roof, steam heat, electric light, cement and pine floors, hollow metal sash, Otis elevators, roof ventilators, waterproofing and dampproofing. Plans completed. Architect ready for bids May 1st.

Garage, Lower Merion Township, Pa. Architects, Savery & Scheets, Stephen Girard Building, Philadelphia. Owner, Jonathan R. Jones, Lafayette Road, near River Road, Lower Merion Township, Pa. Brick and stone, 1 story, 21x21 feet, slate roof (heating, lighting, plumbing and grading reserved), concrete floors. Architect taking revised bids, due May 3rd. R. C. Ballinger & Co., 218 North Thirteenth street, are figuring (only bidders).

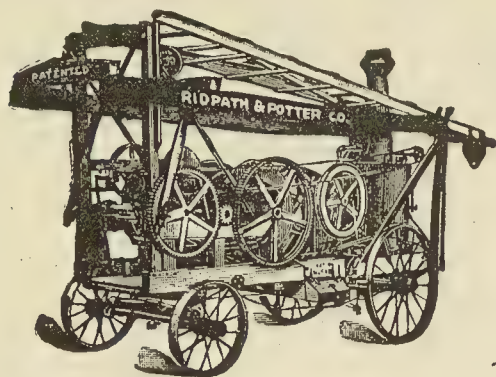
Freight Station and Office Building, Steelton, Pa. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and concrete and steel, 1 and 2 stories, 275x31 feet and 53x30 feet, tin and slag roof, steam heating, electric lighting, concrete and spruce floors, safety treads, fire doors, roof ventilators, ornamental iron work, wire work. Owners, care of W. B. McCaleb, Harrisburg Division, taking bids, due May 18th. Roydhouse-Arey Co., 112 North Broad street; Jacob Myers & Sons Co., Witherspoon Building, and E. E. Hollenback, Inc., 1804 Brandywine street, are figuring.

Residence (alt. and add.), Bala, Pa. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, G. Brinton Roberts, Bala, Pa. Stone, consists of alteration to porch, slag roof, electric lighting. Architects taking revised bids, due May 4th. H. H. Burrell, 206 South Quince street; J. P. Thompson, Real Estate Trust Building; Wm. H. Eddleman & Sons, 453 Green Lane, Roxborough, Philadelphia, and Alfred James, Bala, Pa., are figuring.

Residence, Sellersville, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Frank Cressman, care of Allen R. Cressman Sons, Sellersville, Pa. Hollow tile and plaster, 2 stories. Plans in progress.

Residence (add.), Lansdowne avenue, Lansdowne, Pa. Architect, Bunting, 603 Chestnut street, Philadelphia. Owner, Mrs. M. Russell Berger, for Frank H. Fleer, Lansdowne, Pa. Hollow tile and plaster, third story addition, 20x30 feet, shingle roof, hot air heating, electric lighting, tile work, pine floors, metal lath. Architects taking bids, due May 7th. The following are figuring: J. Howard Roberts, George W. Riley and M. Atlee Ermold, all of Lansdowne, Pa.

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PENNSYLVANIA

Contracts Awarded

Apartment House, Fifth and Spruce streets, Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, Dr. Geo. Levan, Seventh and Bingham streets, Reading, Pa. Brick, 3 stories, 20x100 feet, slag roof, hot water heating, combination lighting, tile work, hardwood floors, metal lath, dumbwaiters. Contract awarded to Wm. Gaul, Reading, Pa.

Garage, Wyomissing, Pa., 5,000. Architect, F. A. Muhlenberg, Colonial Trust Building, Reading, Pa. Owner, John C. Baker, Wyomissing, Pa. Brick, 2 stories, 40x30 feet, slag roof, hot water heating, electric lighting, cement floors. Contract awarded to Daniel H. Hunter, Reading, Pa.

Garage, Melrose Park, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, H. S. Monroe, Griscom street, Frankford, Philadelphia. Frame and stucco, 1 story, 10x20 feet, shingle roof, cement floor, hot water heating, electric lighting. Contract awarded to H. A. L. Smink, Akron and Wakefield streets, Philadelphia.

City Hall and Police Building (alt.), Chester, Pa., \$69,463. Architect, Clarence W. Brazer, 1133 Broadway, New York City. Owners, City of Chester, care of Jno. H. Mirkil, supt. of Parks and Public Properties. Brick, stone, steel and terra cotta, 2 stories, 80x35 feet, and 35x22 feet, and 38x100 feet, slate roofs, tile, cement and pine floors, hollow tile, metal lath, tile and marble work, fire and kalamein doors, metal window guards (plumbing, steam heating, electric work separate bids). Contract awarded to James H. Wells, Otis Building, Philadelphia.

Residence, City line and Church road, Overbrook Pa., 30,000. Architects, Savery & Scheetz, Stephen Girard Building, Philadel-

phia. Owner, Joseph Gilfillan, West End Trust Building, Philadelphia. Stone, 2½ stories, 31x56 feet, and 21x27 feet, slate roof, hardwood floors, tile work, electric lighting. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street.

Passenger Station, St. Davids, Pa., \$2,750. Architect, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Steel, timber and concrete, 125x15 feet, slate roof, pine floors. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Residence (alt. and add.), Pine Forge, Schuylkill Co., Pa. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street. Owner, W. McM. Rutter, Pine Forge, Pa. Stone, 2½ stories, addition, 30x25 feet (plumbing, heating and electric work reserved), shingle roof, hardwood floors. Contract awarded to F. H. Kaiser & Co., Pottstown, Pa.

Residence, Bethayres, Pa., \$8,600. Architect, E. Kenny Crothers, 5215 Chestnut street, Philadelphia. Owner, O. W. O'Neill, Jr., 328 Walnut street, Philadelphia. Hollow tile and plaster, 2½ stories, 42x24 feet, wing 12x16 feet, shingle roof, hot air heating, electric lighting, metal lath, hardwood floors, tile work. Contract awarded to Milton S. Grawl, 902 Bulletin Building, Philadelphia.

Store and Apartment, 26 South Fourth st., Harrisburg, Pa., \$8,600. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owner, Joseph Strouse Estate, care of Wm. Strouse, 310 Market street, Harrisburg. Brick, 3 stories, 20x57 feet, tin roof, steam heat, hardwood floors, electric light, tile and marble work, hollow metal skylights. Contract awarded to W. Gettys, Harrisburg, Pa.

Residence (alt. and add.), Mill Creek Road, Ardmore, Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, J. Howard Pew, Finance Building, Philadelphia. Stone and brick, 2½ stories, 32x24 feet, tin roof, oak and pine floors, electric lighting, tile work (heating, lighting fixtures reserved), wire work. Contract awarded to Charles C. Pace, Merion, Pa.

Bridge (rebuilding) No. 22, over Eighth street, Mahanoy City, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway, Reading Terminal, Philadelphia. Reinforced concrete and steel, span 24½ feet. Contract awarded to P. J. Campion, Mahanoy City, Pa.

Factory, Allentown, Pa. Architect, private plans. Owners, Victor Leather Co., Allentown, Pa. Brick, steel and concrete, 1 story, 300x80 feet, slag roof (heating, lighting and plumbing reserved), electric lighting, concrete floors, rolled steel sash, fire doors. Contract awarded to George Hardner, Lentz Building, Allentown, Pa.

New Jersey

Construction News

Fire House, Vineland, N. J. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, Office of Commissioners, Vineland, N. J. Brick, stone trimmings, 2 stories and tower, 30x70 feet, slag roof, hot water heating, electric lighting, cement and pine floors, waterproofing. Plans completed. Owners will advertise for bids in a few days.

Factory, Lillie street, between Seventeenth and Eighteenth streets, Newark, N. J. Engineer, John H. & Wilson C. Ely, Newark, N. J. Owners, General Electric Co., Newark, N. J. Brick, reinforced concrete and steel, 4 stories and basement, 512x108 feet, slag roof, (elevators, heating and lighting reserved), concrete floors, hollow tile, tile and terrazzo work, hollow metal sash and doors and skylights, kalamein doors, waterproofing, wire work, ornamental iron work. Owners taking bids.

Garage, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owner, Hugh D. Trout, Trenton, N. J. Hollow tile and stucco, 1½ stories, 21x21 feet, slate roof, cement floors, electric lighting. Architect has received bids.

Woman's Reformatory (add.), Clinton, N. J. Architect, F. H. Bent, State House, Trenton, N. J. Owners, Board of Managers, Woman's Reformatory, Clinton, N. J. Hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, wood floors, hollow tile. Plans in progress.

Bank, Trenton, N. J. Architects, Dennison, Hiron & Darbyshire, 475 Fifth avenue, New York City. Owners, Trenton Bank, Trenton, N. J. Plans in progress. Too early for details.

Garage and Warehouse, Brunswick avenue, Trenton, N. J. Owners, Board of Freeholders, Mercer County, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Brick, 2 stories, slag roof, cement floors, steam heating, electric lighting. Owners taking bids, due May 8th. S. W. Mather & Son, Greenwood and Canal streets; W. R. Ivins, 705 Monmouth street; Jas. Morris, Broad Street Bank Building; Burton & Burton, American Mechanics' Building; Scott & Day, 114 North Montgomery street; Charles Smith, all of Trenton, N. J., are figuring.

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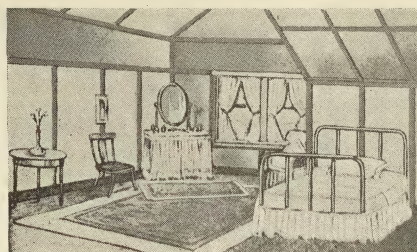
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Northwest Corner 19th and Cambria Streets

N. J. Architect, private plans. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Frame, 200x11 feet, (4) 200x14 feet, 100x11 feet and 50x11 feet. Owners, care of R. Massey, supt., Jersey City, N. J., has received bids.

Store and Dwelling (alt. and add.), southwest corner Brighton and Fairmount avenues, Atlantic City, N. J. Architect, Seward G. Dobbins, 18 S. Virginia avenue, Atlantic City. Owner, Jacob Reuben, on premises. Brick, 2 stories, slag roof, hardwood floors. Plans in progress.

Fire House, Indiana avenue, Atlantic City, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, Commissioners of Atlantic City, City Hall, Atlantic City. Brick, 2 stories, 30x110 feet, electric lighting, tile roof, cement floors, tile and marble work. Owners taking bids, due May 3rd. Harry Seull, Sheen Building; W. Beaumont, 10 S. Tennessee avenue; Geo. Phifer, and Samuel Headley, Atlantic City, are figuring.

Fire House, Penna. avenue, Atlantic City, N. J. Architect, Stout & Riebenack, Guarantee Trust Building, Atlantic City. Owners, City Commissioners, City Hall, Atlantic City, N. J. Brick and terra cotta, 37x100 feet (heating, plumbing and electric work reserved), tile roof, concrete and yellow pine floors, metal lath. Architects taking bids, due May 3. Mathis & Son, Guarantee Trust Building, Yarmou & Shenkman, Geo. Phifer, Nicholas W. Young, Harry Seull, Sheen Building, and Samuel Headley, Guarantee Trust Building, all of Atlantic City, are figuring.

Platforms and Sheds (extension), Second and Stevens streets, Camden, N. J. Archi-

tecs, M. of W. Dept., Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Corrugated iron and timber on concrete piers, 1 story, 275x37 feet and 243x40 feet, ready roofing (cement paving, lighting and plumbing reserved), maple and pine floors. Owners, care of Jas. Buckelew, supt. Camden Terminal Div., 23 Federal street, Camden, N. J., taking bids, due May 8th. Eugene Tourison, 1001 Chestnut street, is figuring.

Crusher Plant, Paulsboro, N. J. Architects, Engineering Department, Harrison Bros. & Co., Inc., Thirty-fifth and Gray's Ferry Road, Philadelphia. Owners, Mantua Chemical Co., Paulsboro, N. J. Brick, 1 story, 41x10 feet and 65x10 feet, asbestos roof, cement floors, metal lath, rolled steel sash. Engineers taking bids, due May 6th. Pomeroy Const. Co., 1609 Ranstead street; H. E. Baton, Twelfth and Sansom streets; Austin Co., Transportation Building; George Tomlinson & Son, 2619 South Fifteenth street, Philadelphia, are figuring.

Factory (add.), Trenton, N. J., \$10,000. Architect, J. O. Hunt, Montgomery street, Trenton, N. J. Owners, De Lion Tire and Rubber Co., East State street, Trenton, N. J. Brick, second story addition, 50x112 feet, concrete and slag roof, steam heating, reinforced concrete floors, hollow tile, elevators, safety treads, roof ventilators, metal window guards, fire escapes, iron stairs. Plans in progress.

Factory, East State street, Trenton, N. J., \$7,000. Architect, J. O. Hunt, 114 Montgomery street, Trenton, N. J. Owners, De Lion Tire and Rubber Co., East State street, Trenton, N. J. Reinforced concrete, 1 story, 20x60

feet, concrete roof and floors, steam heating, electric lighting, rolled steel skylights. Plans in progress.

Bakery (add.), Pennington avenue and Monroe street, Trenton, \$6,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Robert C. Kolb, Trenton, N. J. Brick, 2 and 1 stories, 39x100 feet, slag roof, electric lighting, Lupton sash. Architects taking bids, due May 5th. Burton & Burton, Scott & Day and S. W. Mather & Son, all of Trenton, N. J., are figuring.

Store and Print Shop, Hopewell, N. J. Architect, J. Osborne Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, E. V. Savidge, Hopewell, N. J. Brick and terra cotta, 2 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, metal ceiling, store front, tile work. Architect ready for revised bids.

Garage and Warehouse, Brunswick avenue, Trenton, N. J. Architect, J. O. Hunt, 114 Montgomery street, Trenton, N. J. Owners, Board of Freeholders, Mercer County, Trenton, N. J. Brick, 2 stories, slag roof, cement floors, steam heating, electric lighting. Owners taking bids, due May 8th. Charles Y. Barlow, 149 Elmhurst street; William Hicks, 1402 West State street; Thomas Day, 1109 Greenwood street; John Proctor, 53 Garfield street, and Harry Hilton, all of Trenton, N. J., are figuring, in addition to those previously reported.

New Jersey Contracts Awarded

Apartment House, Providence ave., Atlantic

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

City, N. J. Architect, Wm. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Daniel W. Short, 127 South Tennessee avenue, Atlantic City. Brick, 3 stories, 21x76 feet, slag roof, hot water heating, wood floors, gas and electric lighting, metal lath, tile work. Contract awarded to Wm. Hoy, care of owner.

Residence (alt. and add.), Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, George Washington, Riverton, N. J. Plaster on present frame structure, 2½ stories, 25x60 feet, new hot water heating, electric lighting, tile baths, plumbing. Contract awarded to Louis Lowden, Riverton, N. J.

Factory, Camden, N. J., \$90,000. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, Campbell Soup Co., Camden, N. J. Brick, concrete and steel, 2, 4, and 5 stories, 143x79 feet, slag roof, rolled steel sash, asphalt floors, hollow metal skylights, fire doors, roof ventilators (heating, lighting, plumbing reserved). Contract awarded to Barclay White & Co., 1713 Sansom sts., Philadelphia.

Garage, Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Chas. J. Allen, Moorestown, N. J. Hollow tile and plaster, 2 stories, 30x40 feet, hot water heating, tile roof, electric lighting, cement floors. Contract awarded to Stewart L. Maines, Moorestown, N. J.

Office Building (alt. and add.), Fifth and Market streets, Camden, \$30,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Delaware & Atlantic Telegraph & Telephone Co., Camden, N. J. Reinforced concrete, brick and steel, stone trimmings, 2 stories and basement, addition, 39x42 feet, slag roof, steam heating, electric lighting, marble, terrazzo, composition and cement floors, hollow metal sash and skylights and doors, hollow tile, metal lath, roof ventilators, metal window guards, waterproofing, ornamental iron. Contract awarded to F. A. Havens & Co., 846 North Nineteenth street.

Cold Storage House (Furs), 1329 Pacific avenue, Atlantic City. Architect, Frank A. Berry, Guarantee Trust Building, Atlantic City. Owner, N. Levin, 1329 Pacific avenue, Atlantic City, N. J. Brick, 2 stories, 17x20 feet, slag roof, concrete and wood floors, heating undecided, gas lighting, hollow tile, roof ventilators. Contract awarded to Mr. De Linkey, care of owner.

High School, Cape May, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, School Board of Cape May, N. J. Brick, 3 stories, 56x125 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to Wm. Porch, Sheen Building, Atlantic City.

High School, Cape May Court House, N. J. Architect, S. Hudson Vaughn, School Board, Cape May Court House, N. J. Brick, 3 stories, 96x94 feet, slag roof, steam heating, electric lighting, metal lath, yellow pine floors. Contract awarded to Wm. Porch, Sheen Building, Atlantic City, N. J.

Miscellaneous Construction News

Garage, Ninth and Tatnall streets, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, Frank S. Dure, 1509 Franklin street, Wilmington, Del. Brick, 1 story, 100x100 feet, slag roof, concrete floors, hot water heating, electric lighting. Plans in progress.

Church and Sunday School, Columbus, O. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, St. Paul's Evangelical Church, Columbus, O. Brick, 1 story and basement, 55x65 feet, asbestos shingle roof, steam vapor heating, electric lighting, maple floors, waterproofing. Preliminary plans in progress.

Sales and Service Building, Syracuse, N. Y. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Bayette Realty Corporation, Syracuse, N. Y. Brick and concrete (partly fireproof), 1 story and basement, 60x82 feet, asphalt roof, steam heating, electric lighting, fire doors, elevator, hardwood floors, hollow metal and rolled steel sash and skylights. Architect taking bids, due May 4th. Hueber & Minikehn, Delmonico Bros., Yewnock & Pauline, Michael Hammer and O'Brien Const. Co., all of Syracuse, N. Y., are figuring.

Union Station, Winston-Salem, N. C. Architects, Frye & Chesterman, Roanoke, Va. Owners, Winston-Salem Union Station Co., Winston-Salem, N. C. Stone, brick, steel, reinforced concrete and terra cotta, 3 stories, 110x102 feet, slag, tile and composition roof, steam heating, electric lighting, tile, marble and terrazzo work, hollow metal skylights and doors, kalamain doors, iron stairs, concrete floors, metal lath, elevators, roof ventilators, metal window guards, wire work, platforms No. 1, concrete, 645x20 feet, No. 2, 736x17 feet, ornamental iron work. Architect taking bids, due May 11th. Driscoll Co., Stock Exchange Building; Irwin & Leighton, 126 N. Twelfth street, Philadelphia, are figuring.

Residence (alt. and add.), Ninth and Orange streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, Jas. T. Chandler, on premises. Brick, 3 stories, slag roof, hot water heating, wood floors. Architect taking bids. Howard May, Wilmington, Del., is figuring.

Dormitory Building and Dining Hall, Newark, Del. Architects, Day & Klauder, 923 Chestnut street, Philadelphia. Owners, Delaware College, Newark, Del. Brick and marble, fireproof construction, 3 and 4 stories, 30x200 feet, slate roof, steam heating, tile, marble and terrazzo work. Plans in progress. Architects will take sub-bids.

Office Building, York Lynne, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, National Fibre & Insulation Co., York Lynne, Del. Brick, 1 story, 40x60 feet, slag roof steam heating, electric lighting hollow metal sash, metal lath. Contract awarded to Mr. Harman, Kennett Square, Pa.

Maryland Contracts Awarded

Tenant House (2), Singlerly, Md. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owner, name withheld. Frame, 2 and 3 stories, 34x32 feet, slate roof, hot water heating. Contract awarded to A. M. Stricklin, Elkton, Md.

Apartment House, Thirty-sixth, Greenway and St. Paul streets, Baltimore. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owner, George Debnam, Union Trust Building, Baltimore. Brick, stone and tucko, 4 stories, 106x41x84 feet, tile and tin roof, vapor heating, electric work, ornamental iron work, fire escapes, skylights, ventilators, dampproofing, plastering, metal lath, paint-

ing, tile, marble, slate or terrazzo work, dumb waiters, cement floors, metal sash and doors, plumbing and painting. Contract awarded to H. D. Watts Co., Garrett Building, Baltimore.

Church (alt. and add.), Twenty-fifth street, Baltimore, Md. Architect, M. R. Rhoads, Chambersburg, Pa. Owners, Twenty-fifth Street Christian Church, Rev. B. H. Melton, 407 Breston Place, Baltimore. Stone, 42x85 feet, slate roof (heating and electric work reserved). Owner will sub-let.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 24, 1917.—Sealed proposals will be opened in this office at 3 P. M. May 15, 1917, for the installation complete of an electric mail elevator, etc., in the United States post office and courthouse at Philadelphia, Pa., in accordance with the drawing and specification, copies of which may be had at this office in the discretion of the Supervising Architect.—James A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 18, 1917.—Sealed proposals will be opened in this office at 3 p. m. May 29, 1917, for the construction complete of the United States post office at Berwick, Pa. Drawings and specifications may be obtained from the custodian of site at Berwick, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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O. W. Ketcham.....Builders' Exchange, Phila

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Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.

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Composition Flooring.

Philadelphia Mineral Flooring Co.,
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The Barrett Co.....New York City and Phila.

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Grant Pulley and Hardware Co.,
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Drawing Materials.

Charles H. Robbins.....125 S. 11th st., Phila.
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Electrical Specialties.

Large-Dail Mfg. Co.....606 Cherry st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
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10th and Columbia ave., Phila.

Marble Mosaic.

Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.

Metal Lath.

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2200 Arch st., Phila.

Pearce Fireproof Co.....1345 Arch st., Phila.

Meters.

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Real Estate Trust Bldg., Phila.

Mill Supplies.

The Fairbanks Co.....7th and Arch sts., Phila.
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Nurseries.

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American Chemical Paint Co.1118 S.11th st., Phila.

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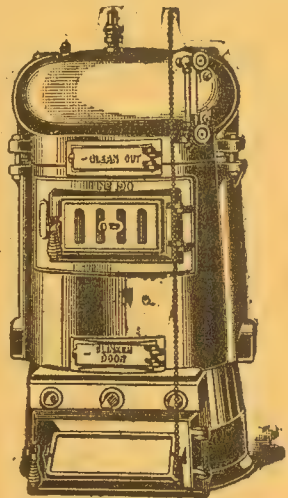
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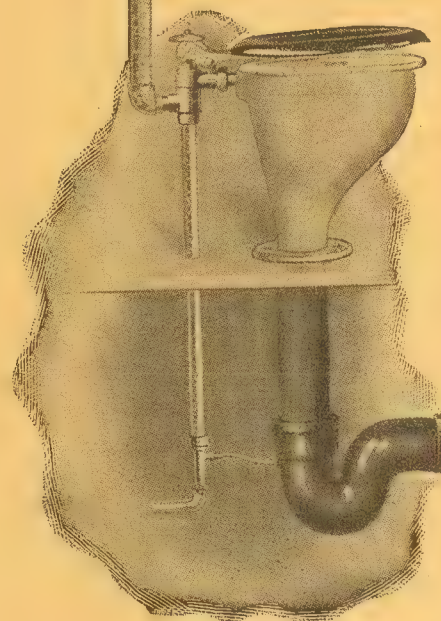
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Vol. XXXII., No. 19
May 9, 1917

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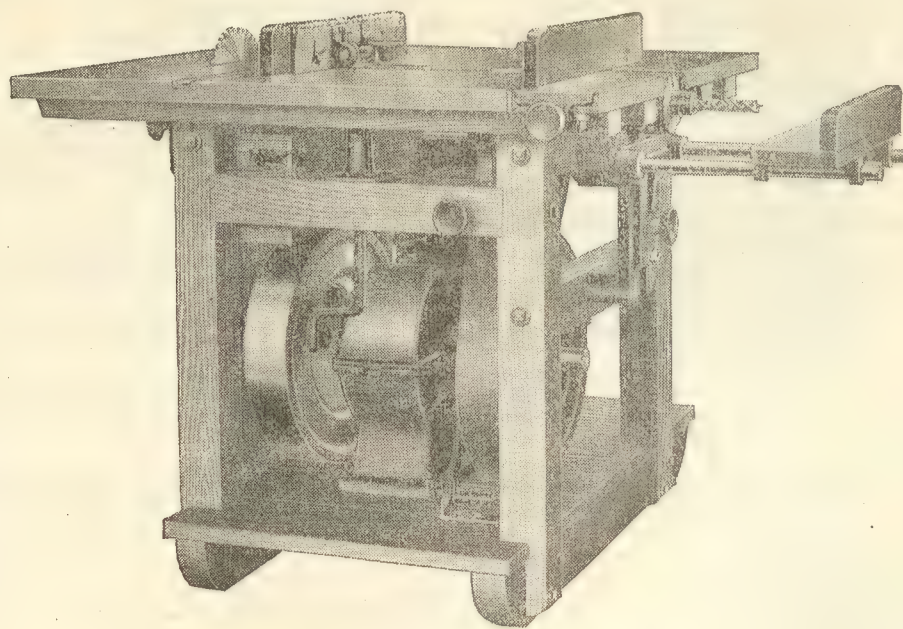
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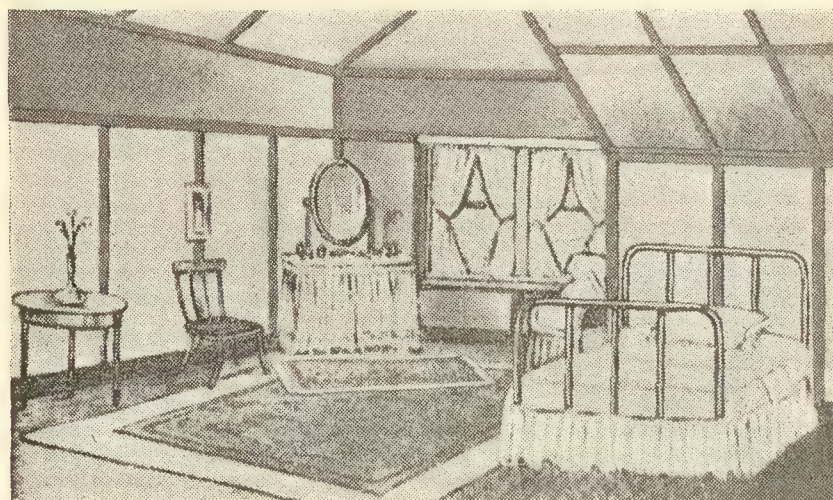
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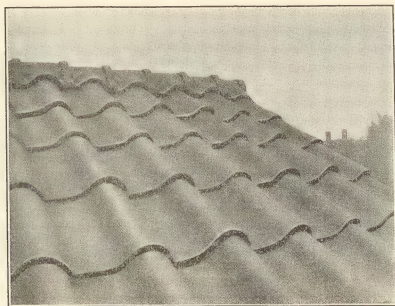
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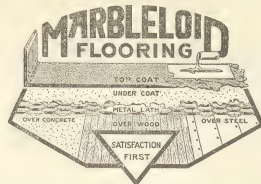
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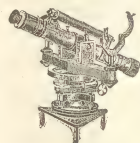
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 19

PHILADELPHIA
May 9, 1917



As The Editor Sees It



IN a recent number of THE GUIDE I made bold to venture a suggestion.

Briefly stated, the suggestion was that the drawings, plan and perspective, sketches and architectural accessories, recently exhibited at the Art Club, be placed on exhibition at the main and branch high schools, at the city's recreation centers and in turn at the various free libraries of the city. It was my idea to have popular interest in these exhibitions enhanced by lectures on topics related to architecture—the underlying purpose being the education of impressionable minds to an appreciation, first, of what constitutes good art and, second, the high and important relation good architecture bears to the formation of national taste. My little suggestion awakened about as much interest, among the architects, as a pebble dropped into the sea might be expected to awake among the denizens of the deep. However—

It has long been a subject of some interest to me, the apparent indifference on the part of the great lay public to the outstanding charm of gracefully conceived buildings. It has been a source of some perplexity to me to account for the apathy with which the man and woman of taste, in other channels, appear to regard the architectural exhibition.

To me, an architectural exhibition is quite as interesting in its way, as an exhibition of paintings, or of sculpture, or of craftsmanship in furniture, or metal, or pottery.

I enjoy a cleverly executed piece of structural designing with as much keenness as I do a brilliant bit of brush work. A deftly done architectural sketch arrests my interest with quite as much of compelling charm as a master trifle in a book illustration. I can admire black-and-white as ardently as the Venetian touch in water color or in pastel.

THE April number of the *Journal of the American Institute* comes to me, in the circumstances, with a certain timeliness. Adopting as its text an article in the *New York Tribune*, in which, commenting upon the recent exhibition of the Architectural League of New York, Mr. Cortisoz deprecates the mixed character of that exhibition and reaffirms his conviction of last year by challenging architects to an exposition of their work which shall be intimately architectural and not lost or hidden among the work of the painters, the sculptors or the decorators, the *Journal* proceeds to say:

"On first thought it would seem just as reasonable to undertake an exhibition of newspapers as it would to assemble an exhibition of architecture. The world is so full of buildings of every conceivable kind that one might well ask why it was necessary to have an exhibition of architecture. If a man cannot be interested in the infinite variety of structures among which his daily life is cast, then how is he to be interested in the pictorial presentation of those and other buildings. The test of architecture is the building. It is not the drawing, nor the rendering, nor the photograph. To really study architecture one must study buildings. To study it seriously, one must look behind the pleasing or displeasing facade and consider the purpose, the facility which the building offers for carrying out that purpose, and the plain facts of soundness, durability, and income-producing value. This last factor is apt to be something of a shock to the academician, and yet that is the most insistent test to which modern architecture has to respond. It is idle to ignore it, futile to dismiss it. Study the architecture of the past as we may, enjoy it as we do, be inspired by it as we must, we cannot get away from the bald

fact that the modern builder wants a fair return on his investment. We may except certain kinds of structures, where the return is of an indirect kind, difficult to evaluate, but we shall still find ourselves confronted with the vast volume of building undertaken as a business investment. Is it not in this field that we find the incongruous jumble which makes the modern city so intolerably ugly? Ought an exhibition of architecture to avert a corrective influence upon this kind of work? Is it for the purpose of informing that large majority of the public that an exhibition should be held, or ought it to be devoted to country-houses and the small class of buildings where the income is not measured in actual money?"

* * *

POSSIBLY that is the question that must first be answered. We can all think of a kind of exhibition that would interest architects. They understand drawings and can read a plan. They can see through and beyond the rendering, the perspective, the elevation, and derive both benefit and pleasure from a study of the methods by which other architects have combined their structures to attain certain ends and yield certain effects of form and color. The technique of the art is at their fingertips. Its alphabet runs through their minds without any effort at translation or decipherment. They are not tricked by methods of presentation which obscure defects of plan and proportion. An elevation can be measured and estimated by the experience which comes from long practice. Its flatness and lack of shadow can be informed with the imaginative eye of the trained mind. Palpable errors in plan stand forth with a clearness that no process of dressing up can hide."

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**BLUE
PRINTS**

BUT it is not so with the untrained. Not one man in a thousand can read a plan, or imagine what an elevation will look like when it is built, or detect the difference between a good building badly or indifferently presented and a bad building which has been dressed out with some blue sky and a landscape. Obviously there must be a distinction made between the kind of an exhibition one would offer as a means of impressing and informing the public and an exhibition which would merit the approval and the keen interest of architects.

"They have an interest in the tools of the trade. Plans, elevations, sections, perspectives—these things which are merely the media through which the building is evolved—possess a power of attraction that is purely professional and technical. As a method of studying architecture it would seem that they are only related to the thing which really tells the story. It is the resultant building that stands as the architectural expression."

* * *

BE the architect ever so skilful a maker of pictures, the one test is the building. It always has been so; always will be so. The presentation of plans and elevations of projected work is not a study of architecture, but a study of the architectural method of building. The presentation of the plans and elevations of a building which has actually been built would seem to be a futile attempt to substitute the portrait for the living body. The one excuse is the opportunity for gathering together, pictorially, examples of architecture from widely distributed areas—of presenting a record of nation-wide or world-wide progress, such as could be viewed in no other way. That is certainly a legitimate purpose."

* * *

BUT if the study of architecture is the study of the building, then every attempt to study it by pictorial presentation is as much removed from the real study as the element of translation enters into the presentation. There is no way of drawing or painting or etching a building without having the result reflective of the artist's conception of the work. Such an exhibition would be interpretative, not accurately architectural, and would afford as many different presentations of a particular building as there were drawings. Such a result is inescapable and brings us face to face with the fact that it is not easy to say how to put together an architectural exhibition that shall be really interesting, and honestly instructive to those who daily move from their homes to their work, from one city to another, from

one land to another, and yet who find no interest whatever in the study of the buildings which meet their eye by thousands."

* * *

WE may possibly except those who travel to Europe, Baedeker in hand, and credit them with an effort to seriously understand the tale which has been written for their perusal, yet it is difficult to find solid ground for believing that such study is reflected in any mighty effort to apply the results to their own environment. We live among an ugliness which is appalling, if one can pause long enough to thoroughly take it all in. But we never do pause. It does not trouble us. We do not even see it. And so, perforce, we must seek to accomplish by an exhibition that which we cannot accomplish by the example before us, for of all the ever-present works of man, architecture may surely claim pre-eminence."

* * *

IT is possible, is it not, that the best exhibition would be one in which drawings, elevations, photographs and models were all presented in such a manner that the novice might trace the whole procedure and thus gain a very definite impression of how the architect pursues his studies and to what purpose he serves his clients. Perhaps the problem is to be solved only by going deeper into what, for want of a better word,

we shall have to call the human equation in the relationship of architecture to modern life. Possibly it might be also well worth while to carefully inquire whether exhibitions are held primarily for the advancement of architecture or for the welfare of the profession. There is a wide difference, and each involves a different method of approach."

* * *

THE subject is not to be discussed as an isolated factor, however, if one wishes to approach it intelligently. The exhibition, as an element in educational influence, is, at best, a substitute for a kind of education which shall eventually train our children to refuse to live in cities and towns which have been made over to other pursuits than those of the common welfare and the common enjoyment. When we have found out how to teach the horror of ugliness, we shall have learned something about how to interest people in architecture."

* * *

EXACTLY, and to my way of thinking no surer, sounder method of approach to an education of the child,—the expanding intelligence of the community,—to the horror of architectural ugliness may be had than the familiarizing of the child, by exposition and by lecture, with the good in architecture. The architectural exhibition that confines its appeal solely to architects can hope to achieve but little.

EDITORIAL NOTES

Building material prices continue to advance in the scale and there is no manufacturer or dealer that is willing to hazard a guess as to the probable limit of the upward movement. The constantly increasing cost of structural commodities is responsible for the fact that a number of noteworthy operations are being held in abeyance, and yet one of the really surprising conditions in regard to the building situation is the number of projects that are proceeding regardless of the high cost of materials. It is to be expected that the purely speculative work will be practically at a standstill, until the prices of materials become normal or at least reasonable. The investor and speculative builder cannot possibly afford to build at the present time on account of the unprecedented high cost and the exceedingly small margin of profit returned.

* * *

According to recent reports from prominent building concerns, one of the factors that the trade will have to contend with will be the shortage of skilled labor. The situation is not considered good at the present time and there is every possibility that there will be a serious shortage as the season progresses and work becomes more active.

The Architectural League of New York has joined the movement to help avert a world-wide famine by cultivating vacant lands. It has formed a food battalion, which will do its patriotic work at Forest Hills Gardens, L. I., with the co-operation of the Mayor's Committee on Farm Gardens and the agricultural department of the Long Island Railroad.

* * *

According to the present schedule the Federal Government will expend about \$115,000,000 in construction work, the bulk of which will be in the East. The navy yards at New York, League Island, Norfolk and the ones on the Pacific Coast are to be improved by the erection of new shops and warehouses to provide facilities for military activities. The building trades will undoubtedly shortly begin to feel the effects of the great amount of Government work, and it is this feature that will assist to a large extent in keeping the industry busy. The preparedness program contains provisions for a very important amount of new construction work and the facilities of the building trades will be taxed to the utmost to complete the operations in schedule time.

United States foreign trade, during March, gained \$156,000,000, as compared with February, both exports and imports showing remarkable gains.

* * *

The National Pipe and Supplies Association will hold its annual convention in Philadelphia, May 9-10. Headquarters, Bellevue-Stratford Hotel.

* * *

The Turner Construction Company has obtained a contract for the erection of two large reinforced concrete storage buildings at the Brooklyn Navy Yard, the total cost of which will be approximately \$2,000,000. This is the first important Government contract to be awarded, and is the forerunner of a mass of important Government work.

* * *

Professor C. R. Richards, Professor of Mechanical Engineering and head of the department since 1911, has been appointed dean of the College of Engineering and director of the Engineering Experiment Station of the University of Illinois, to succeed Dr. W. F. M. Goss, who has resigned to become president of the Railway Car Manufacturers' Association of New York.

* * *

Model houses constructed of cement, sand and rice husks are being erected by the Philippine Health Service. These houses can be built for \$250 and will outlast the unsanitary nipa houses now in general use.

* * *

The Hercules Cement Corporation, 30 East Forty-second street, New York City, announces that W. W. Bailey, formerly connected with the Atlas Portland Cement Company, has been appointed district sales manager.

* * *

George Henry Sargent, president of Sargent & Co., often called the dean of the hardware trade, died of infirmities due to old age at his home in New York City, on Saturday, April 14. He had been identified with the affairs of this company since 1853, until a few years ago. Mr. Sargent was trained at Harvard for the legal profession, but he joined the hardware business established by Joseph B. Sargent in 1849, which was merged into a co-partnership in 1853, Edward Sargent entering it later. In 1864, following the erection of a new plant at New Haven, Conn., the business was incorporated as Sargent & Co. He was a member of, and for two years, president of the Hardware Club, and has also held office in the Union League and Republican Clubs. He was also a member of the University Club and the Harvard Club.

* * *

Mason, Hilton & Co. and the Merrill-Ruckgaber Company have moved their offices to 120 Liberty street, New York, and have associated themselves in the formation of the Cadmus Construction Company, which will continue as constructor of railroad buildings, power developments, dams, bridges, tunnels, coal pockets and other structures.

Metzgar & Fisher, contractors and builders, formerly located in the Denckla Building, announce their removal to new offices in the Otis Building, Sixteenth and Sansom streets, Philadelphia.

* * *

The National Machine Tool Builders' Association will hold its spring meeting at the Hotel Clinton, Cincinnati, Ohio, May 21-22.

* * *

The Giese Art Metal Works, manufacturers of lighting fixtures, announce the removal of their office and salesrooms to 4414 Germantown avenue, Philadelphia.

* * *

The American Society for Testing Materials will hold its twentieth annual meeting at Atlantic City, at the Hotel Traymore, June 26 to 30, inclusive.

* * *

Betz & Drake, architects, of Kingston, N. Y., have opened an office at 56 Second street, Newburgh, N. Y.

* * *

The New Jersey State Association of Master Plumbers will hold its annual convention at Elks Hall, Jersey City, N. J., May 15-17.

* * *

E. A. Wurth, architect, moved his office on May 1 from the Union Building to the Ordway Building, 207 Market street, Newark.

* * *

Horticultural Hall, adjoining the Academy of Music, on Broad street, is to become a theatre. Negotiations for the sale of the property to New York, theatrical interests have been completed. The purchase is said to involve about \$600,000. The property has been on the market for a year. It was sold for the Girard Trust Company, representing the Horticultural Society, which has many stockholders. The negotiations were closed by Bernheimer & Sundheim, representing the purchasers, whose names were withheld. Announcement was made of intention to use the building for theatrical purposes after extensive alterations.

* * *

In the structural work now in progress on the Frankford elevated railroad the Department of City Transit intends to prove that the artistic is not beyond reach in the construction of the stations. Utility and beauty are combined in the designs, which have received the full approval of the Art Jury. Director Twining intends to advertise for bids for ten of the stations this week. In many cases where property was condemned for stations the buildings were not in the best of condition, and were looked upon as unsightly. In their place will be constructed modern brick and terra cotta structures, pleasing in line and color, designed in a simple, sober and logical style of architecture.

* * *

The Merchant & Evans Company has just issued a timely folder directing attention to the staggering total of fire losses due to causes either wholly or partly preventable. Incidentally the company uses the figures as a

pretty convincing argument for the superiority of tin as a roofing material and, of course, "M. & E. Old Method" in particular. Copies may be had on request.

SOME MORE ADVERTISING

"DON'T'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

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If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pipkin that there is either something better on the market or your specialty isn't worth a kopeck noway.

The darkest hour in any man's life is when he sits down to plan how to get money with out earning it.—Horace Greeley.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange

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Library (Logan Branch), Old York road and Wagner avenue, Logan. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Carnegie Free Library, Thirteenth and Locust streets, Philadelphia. Stone, brick and terra cotta, 1 story and basement, 102x85 feet, slag roof, cement floors, hollow tile, metal lath, tile and marble work, hollow metal skylights, ornamental iron work. Architect taking bids, due May 10th. H. H. Burrell, 206 South Quince street; Metzger & Fisher, Otis Building; Jacob Myers & Sons Co., Witherspoon Building; F. A. Havens & Co., 845 North Ninth street; Irvin & Leighton, 126 North Twelfth street; H. E. Batton, Twelfth and Sansom street; Wark, Yardley Co., 1237 Filbert street, are figuring.

Factory and Plating Shop, Stenton avenue, Wayne Junction, Philadelphia. Engineer, Kern Dodge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets, Germantown. Factory, reinforced concrete, 4 stories, 60x320 feet; plating shop, brick, 1 story, 60x60 feet, slag roof, cement and maple floors (elevators, electric work, plumbing, heating and sprinklers reserved), rolled steel sash, fire doors, metal lath, waterproofing. Engineer taking bids, due May 11th. A. R. Raff Const. Co., 1635 Thompson street; H. E. Batton, Twelfth and Sansom streets; Turner Concrete Steel Co., 1713 Sansom street; Cramp & Co., Denekla Building; F. W. Mark Const. Co., Finance Building; Roydhouse-Arey Co., 112 N. Broad street; Irwin & Leighton, 126 North Twelfth street; I. T. Shoemaker, 1324 Walnut street; Doyle & Co., 1509 Sansom street; Wark-Yardley Co., 1737 Filbert street; Eugene Tourison, 1001 Chestnut street; Wills-Ludwick Co., 34 S. Seventeenth street; Monaghan & Loose, Inc., 3016 Chestnut street; Milton S. Grawl, Bulletin Building, are figuring.

Store Building, 812 North Broad street, Philadelphia. Architect, LeRoy B. Rothschild, Bulletin Building, Philadelphia. Owners, R. A. Heymann & Bro., Widener Building, Philadelphia. Stone and brick, 3 stories, 20x160 feet, slag roof, steam heating, electric lighting, tile work, pine floors, (1) elevator. Architect has received bids.

Elevated Rwy (Contracts 521-22-23), Frankford, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Dept. of City Transit, Wm. S. Twining, director, 754 Bourse Building, Philadelphia. Concrete track floor, cast iron and steel floor drains, and reinforced concrete slab footwalks (Callowhill to Indiana streets, 15,630 linear feet, and Indiana avenue to Dyre street, 15,000 linear feet). Owners ready for bids, due May 22d at noon.

Building No. 2 (fire repairs), Thompson and Aramingo streets. Engineer, H. G. Hill, care of John T. Lewis Bros. & Co., 2545 Aramingo streets. Owners, John T. Lewis Bros. & Co., Lafayette Building, Philadelphia, Pa. Brick, 3 stories, 136x39 feet, slag roof (elevators, lighting and heating reserved), concrete and pine floors, hollow metal sash, rolled steel skylights, fire doors, metal lath, wire work. Owners taking bids, due May 14th. Turner Concrete Steel Co., 1713 Sansom street; Roydhouse-Arey Co., 112 North Broad street, and Cramp & Co., Denekla Building, are figuring, in addition to those previously reported.

Community Garage, Germantown ave. and

Venango street, Philadelphia. Architect, private plans. Owner, Geo. F. Stuempfig, 5430 Wayne avenue, Philadelphia. Brick, 1 story, 16x37 feet and 19x72 feet, slag roof, cement floors (plumbing, heating, electric work and gasoline storage system reserved). Owner taking bids, due in ten days. Jacob Y. Loux, 1121 Rising Sun avenue; H. E. Sweger, 4435 North Uber street, and Henry P. Schneider, 3713 Old York road, are figuring.

Factory (alt. and add.), Berkley street, between Wayne and Greene street. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, Arguto Oilless Bearing Co., on premises. Brick, stone and reinforced concrete, 2 stories, 30x94 feet, slag roof (heating and lighting reserved), cement and maple floors, tile, marble and terrazzo work, metal lath, hollow metal sash and skylights, Almetal fire doors, roof ventilators, ornamental wire work. Architects taking bids, due May 10th. Samuel Harting, 20 E. Johnson street; Wm. C. Wright, 22 Harvey street; Wm. J. Gruhler & Co., 219 E. High street; Ketcham & McQuade, 1029 Brown st.; A. R. Raff Const. Co., 1635 Thompson street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Barclay White & Co., 1713 Sansom street; Wark-Yardley Co., 1737 Filbert street, are figuring.

Residence (sun parlor add.), 815 E. Haines street, Germantown. Architect, H. H. King, 6331 Greene street, Germantown. Owner, August Baur, 815 E. Haines street, Germantown. Frame, 1 story, 12x30 feet, tin roof, canvas floors. Architect has received bids.

Club House, 4224-26 Baltimore avenue. Architect, not selected. Owners, Masonic Club of West Philadelphia, 4010 Chestnut st., president, John C. Vogel, 906 South Fifty-fourth street, Philadelphia. Stone and brick, 3 stories, 60x60 feet, and 1½ stories, 80x60 feet, consists of general interior alterations. Work to be started about June, 1917.

Residence (int. alt.), 1825 North Broad st., Philadelphia. Architect, private plans. Owners, Temple University, Broad and Berks sts., Philadelphia. Consists of interior alterations and changing present rooms into class rooms. Work contemplated.

Office Building, southeast corner Fifty-eighth and Woodland avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, J. Gibson McIlvaine & Co., on premises. Brick, stone and reinforced concrete, 2 stories, 47x32 feet, slag roof (lighting reserved), hot water heating, maple floors, marble and terrazzo work, hollow metal sash, kalamein doors, metal lath, safety treads, ornamental iron work, wire work. Architects taking bids, due May 14th. Irwin & Leighton, 126 N. Twelfth street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Ketcham & McQuade, 1029 Brown street; H. E. Batton, Twelfth and Sansom streets; A. R. Raff Const. Co., 1635 Thompson street; Harrison C. Rea Co., 1029 Wood street, and Barclay White & Co., 1713 Sansom street; F. B. Davis, 240 North Sixteenth street, are figuring.

Store (alt.), Arch street, near Eighth st., Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Dannenbaum Bldg., on premises. Consists of new bulk and entrance doors (oak). Architects have received bids.

Garage, Wissahickon avenue and Westview

street, Germantown. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, Royal Hammett (Crew, Levick Co.), Land Title Building. Stone, 1½ stories, (2 cars). Plans in progress.

Office Building (alt.), Twelfth and Thompson streets, Philadelphia. Engineer, Chas. A. Blatchley, Drexel Building, Philadelphia. Owners, Schutte & Koerting Co., on premises. Interior alterations, plastering, repairing floors, new partitions, steam heating, iron stairs, ornamental iron work. Engineer taking bids, due May 9th. H. E. Batton, Twelfth and Sansom streets, is figuring.

Recreation Buildings, League Island Park, Philadelphia, \$120,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, City of Philadelphia, Dept. of Public Works, care of Geo. E. Datesman, director, City Hall. Bandstand, comfort building, 48x17 feet; boathouse and pavilion, 185x49 feet; overlook, 55 feet diameter, 1 story, brick, stone and reinforced concrete (plumbing, heating, electric work separate bids), shingle and tile roofs, cement floors, tile and marble work, hollow tile, metal lath, ornamental iron work. Owners taking bids, due May 11th. Frank G. Stewart, 1619 Sansom street; H. E. Batton, Twelfth and Sansom streets, and Mitchell Bros., 2125 Race street, are figuring.

Signal Tower and Offices, Chestnut Hill, Pa., \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. R. R. Co., Broad Street Station, Philadelphia. Brick, 2 stories, 20x81 feet, slag roof, steam heating, pine floors, electric lighting, metal lath. Owners taking bids, due May 9th. Pringle Borthwick, 8018 Germantown avenue; Fred A. Havens Co., 845 North Nineteenth street; Roydhouse-Arey Co., 112 North Broad street; Brann & Stuart, Commercial Trust Building; H. H. Wehmeyer, 1004 Lehigh avenue; Fred Elvidge & Son, 5522 Germantown avenue; John N. Gill & Co., Otis Building; Mitchell Bros., 2125 Race street; Chas. McCaul Co., 1713 Sansom street; E. J. Kreitzburg, 1345 Arch street; Eugene Tourison, 1001 Chestnut street; W. H. Fissell & Co., Marbridge Building, New York City, are figuring.

Oil Plant, Petty's Island (opposite Philadelphia), Delaware river, Pennsylvania, \$300,000. Architect, private plans. Owners, Crew, Levick Co., Land Title Building, Philadelphia. Reinforced concrete and rolled steel sash. Too early for details. Plans will be completed in a month.

General Storehouse, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Dept., Washington, D. C. Reinforced concrete on wood piles. Owners ready for bids, due May 21st.

Residence (alt. and add.), 6903 Lincoln Drive. Architect, private plans. Owner, E. S. Edwards, on premises. Brick, plastering, 1 story rear addition, 12x18 feet, tin roof, pine floors, electric lighting. Owner has received bids.

Garage, Lincoln Drive and Carpenter street, Germantown, Philadelphia. Architect, private plans. Owner, E. R. Cox, Montevista Apts., Sixty-third and Oxford streets, Philadelphia. Stone, 1 story, 23x25 feet, slate roof, hot water heating, electric lighting, cement floors, metal lath. Owner has received bids.

Residence (alt. and add.), Seventeenth and Spruce streets, Philadelphia. Architects, The

Chapman Decorative Co., 1608 Walnut street. Owner, Dr. Harry C. Deaver, 1415 N. Broad street, Philadelphia. Stone and brick, 4 stories, rear addition, 9x15 feet, tin roof (tile and marble work reserved), extension of present system of heating, electric lighting, cement and pine floors, hollow metal skylights. Architects have received bids.

Stores and Hall, southeast corner of Fifty-sixth and Cedar avenue, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, John Duker, on premises. Brick, 2 stories, 22x20 feet, slag roof, steam heating, electric lighting, tile and marble work, metal ceilings, metal bulks. Architect will take bids in a few days.

Stable, 411-13 Moore street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Goldman, on premises. Brick and stone and concrete, 2 stories, 32x110 feet, slag roof, plank floors, electric lighting, galvanized iron skylights. Owner will take bids in about one week.

Residences (6), 1829-39 South Eleventh st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Liebovitz, care of architect. Brick, 2 stories, 15x45 feet, slag roof, hot air heating, electric lighting, tile work, hardwood floors, modern plumbing. Architect will take bids in one week.

Store and Dwelling, 737 South Fifth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Levyn, 745 South Fifth street, Philadelphia. Brick and stone, 3 stories, 16x26 feet, slag roof, hot water heat, electric lighting, tile and marble work, metal ceilings, flush bulks. Owner is ready for bids.

Telephone Booths, Central Office Building, Seventeenth and Diamond streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Company, Seventeenth and Arch streets, Philadelphia. Mill work, hardware, cork, linoleum and cement floors, marble work. Owners, care of J. L. Kilpatrick, engineer, have received bids.

Church and Sunday School, southeast corner of Fifth and Locust streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, First Reformed Church, care of Rev. E. R. Appenzeller, 435 South Fifth street, Philadelphia. Stone and brick, basement only, 73x133 feet, slate and composition roof, vacuum heating, electric lighting, tile and marble work, hollow metal skylights, fire doors, cement and pine floors, metal lath, roof ventilators, metal window guards, waterproofing. Architects taking sub-bids, due May 9th.

Store (2) and Apartments, Sixty-third street, below City Line avenue. Architect, private plans. Owner's name withheld. Brick, 2 stories, 19x81 feet, slag roof, hot water heating, electric lighting, tile work, pine floors. Chas. C. Paet, Merion, Pa., taking sub-bids.

Dwelling (remodeling into Store and Apartments), Ninth and South streets. Architects, Druckemiller & Williams, Land Title Building, Philadelphia. Owner's name withheld. Brick and terra cotta, 3 stories, 17x100 feet, slag roof, steam heating, electric lighting, tile and marble work, flush bulks, maple floors, metal lath. Architects taking bids, due May 16th. T. C. Trafford, 1613 Sansom street; John Atkinson, Builders' Exchange; E. J. Kreitzburg, 1345 Arch street; Lam Building

Co., 1001 Wood street, and Albert Zellfelder, 151 South Broad street, are figuring.

Sunday School, Eighth and Luzerne streets, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia.

Owners, St. Simeon's English Lutheran Church, Rev. Karl L. Reiser, 4064 North Twelfth street, Philadelphia. Stone, 2 stories, 65x62 feet, slate roof. Plans about completed. Architect will take bids in a few days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), Snyder avenue and Water street, \$10,000. Architect, private plans. Owners, Publicker Ward Distilling Co., on premises. Brick and reinforced concrete, 2d and 3d story addition, 48x48 feet, slag roof, pine floors (heating and lighting reserved), hollow metal sash, metal window guards, wire work. Contract awarded to Jos. Levin Co., 1530 South Sixth street, Philadelphia.

Mill Building (add.), Sixty-third and Market streets, Philadelphia. Architects, Andrew Charles Borner, 721 Walnut street, Philadelphia. Owners, Shane Bros. & Wilson Co., on premises. Frame and shingle (tin) (slow burning construction), 5 stories, 60x100 feet, slag roof (heating and lighting reserved), fire doors, metal ventilators, maple floors, reinforced concrete over boiler house. Contract awarded to Robt. Killough, Wayne avenue and Duval street, Philadelphia.

Bridge No. 43, over Lick Run, south of Snyder town; **Culverts (2)**, 8 miles south of Winfield Station and 1 mile south of Winfield Station. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading Ry., Reading Terminal, Philadelphia. Concrete and steel, waterproofing. Contract awarded to Wm. Taby & Co., Shamokin, Pa., and waterproofing to H. W. Johns-Mannville Co., 210 North Broad street, Philadelphia.

Theatre, southwest corner Nineteenth and Market streets, Philadelphia, \$500,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Stanley Realty Co., Juniper and Market streets, Philadelphia. Brick, stone, steel and terra cotta, 1 story and balcony, 142x170 feet, slag roof, electric lighting, metal lath, fire doors, tile and marble work, cement floors. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Garage, 1909 North Broad street, Philadelphia, \$800. Architect, private plans. Owner, A. H. Mershon, on premises. Brick, 1 story, 15x22 feet, slag roof (heating reserved), cement floors, electric lighting, waterproofing. Contract awarded to E. J. Kreitzburg, 1345 Arch street.

Garage, 8315 Seminole avenue, Chestnut Hill, Pa., \$4,000. Architect, private plans.

Owner, J. Leeds Barroll, 7207 Charlton avenue, Chestnut Hill. Stone, 1½ stories, 23x28 feet, shingle roof, hot water heating, electric lighting, cement floors, metal lath. Contract awarded to Owen Fogarty, 1918 Cherry street, Philadelphia.

Factory (add.), Fifty-eighth and Botanic avenue, Philadelphia, \$12,000. Architect, private plans. Owners, Gulf Refining Co., Morris Building, Philadelphia. Frame, 1 and 2 stories, 40x40 feet and 30x100 feet, slag and asbestos roof, oak floors. Contract awarded to Smith-Hardican Co., 1606 Cherry street.

Club House and Rifle Range (alt. and add.), northeast corner of Eighteenth and Filbert streets, Philadelphia, \$10,000. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad (Broad Street Dept. of Y. M. C. A.), Broad Street Station. Brick, 2 stories, 53x75 feet and 68x34 feet, tin roof, cement and pine floors, hot water heating, electric work reserved, marble work, sheet metal work, mill work, hollow metal skylights, metal window guards. Contract awarded to Wark-Yardley Co., 1737 Filbert street, Philadelphia.

Battery Building, League Island, Philadelphia, \$11,000. Architect, private plans. Owner, U. S. Government, Department of Wharves and Docks, F. R. Harris, chief, Washington, D. C. Frame, concrete foundations, 1 story, 41x44 feet, asphalt roof, concrete floors, roof ventilators. Contract awarded to H. E. Baton, Twelfth and Sanson streets, Philadelphia.

Garage, 800-04 North Carlisle street, \$14,000. Architect, private plans. Owners, L. S. Hall Rubber Co., 1402 Ridge avenue, Philadelphia. Brick, 2 stories, 48x75 feet, slag roof, cement floors, rolled steel sash, hollow metal skylights, elevator, roof ventilators. Contract awarded to Henry P. Schneider, 3713 Old York Road.

Factory (add.), Delaware avenue and Mifflin street, \$6,000. Architect, private plans. Owners, Crew Levick Co., Land Title Building, Philadelphia. Brick, third story addition, 44x123 feet, slag roof, wood floors. Contract awarded to Joseph Levin Co., 1530 South Sixth street, Philadelphia.

PENNSYLVANIA

Construction News

Residence (alt. and add.) and Garage, St. Davids road, St. Davids, Pa. Architect, not selected. Owner, Daniel C. Stewart, care of Penna. RR. Co., Broad Street Station. Store,

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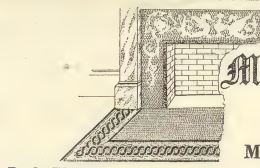
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AWARDING A CONTRACT

residence, 2 story bathroom addition, general interior alteration and renovating; garage, 1 story. Work contemplated.

Packing Plant, Machine and Engine Room, Chestnut and Second streets, Reading, Pa. Architect, C. B. Constock, 110-12 W. Fortieth street, New York City. Owners, Simon & Sherman, Reading, Pa. Reinforced concrete, brick and stone, 3 and 1 story, 100x136 feet, and 23x65 feet (electric work, heating and elevators reserved), composition roof, cement and brick floors, rolled steel sash and skylights, hollow metal doors, roof ventilators, metal window guards, waterproofing, wire work, ornamental iron work. Architect taking bids, due May 15th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Bungalow, Highland Park, Pa. Architect, private plans. Owner, E. J. Kreitzburg, 1345 Arch street, Philadelphia. Brick and stucco, 1½ stories, 27x59 feet, shingle roof, hot water heating, electric lighting, tile and marble work, metal lath. Owner has received bids.

Residences (259), Chester, Pa. Architect,



Both Phones

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E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. G. Price, Law Building, Chester, Pa. Brick, 2 stories, 18x28 feet and 16x23 feet, slag and asphalt shingle roofs, hot water heating, combination lighting. Plans completed. Architect and owner will take sub-bids in a few days.

Residences (8), West Ninth street, Lennox Park, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. C. Nagel, 537 South Fifty-fifth street, Philadelphia. Frame, 3 stories, shingle roof, electric lighting, hot water heating. Plans completed. Owner is taking sub-bids.

Department Store, Fifth and Edgemont sts., Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. G. Price, Jr., Law Building, Chester, Pa. Brick, 4 stories. Plans in progress. Too early for details.

Store and Apartments (3), Fifth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. G. Price, Jr., Law Building, Chester, Pa. Brick, 3 stories. Plans in progress. Too early for details.

Garage, Fifth street and Chester river, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Penn Realty Corp. of Chester, Chester, Pa. Brick, concrete and steel, 3 stories, 60x150 feet, slag roof, steel sash, fire doors, concrete floors, wood piling (heating, lighting and plumbing reserved). Plans in progress.

Residence and Stable (alt. and add.), Elkins Park, Pa. Architect, H. Rex Staekhouse, 129 S. Fifth street, Philadelphia. Owner, name withheld. Stone, frame and plaster, 2½ and 2 stories, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress. Architect ready for bids in a week.

Residence (alt. and add.), Worthington Mills, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, P. O. Chalfant, Forty-seventh and Paschall avenue, Philadelphia. Consists of general interior and exterior alterations, and addition, brick, stone, marble. Plans in progress. Details not yet decided.

Garage, Noble, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Wm. Craven, Noble, Pa. Hollow tile and plaster, 1½ stories, 32x24 feet, shingle roof, hot water heating, electric lighting, cement and pine floors, metal lath. Architects have received bids.

Buildings (3) (alts.), Fifth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Penn Realty Corp. of Chester, Chester, Pa. General interior and exterior alterations. Plans in progress.

Residence, Runnymede avenue and School lane, Drexel Hill, Pa. Architect, private

plans. Owner, Edwin G. Rorke, 5929 Ellsworth street, Philadelphia. Hollow tile and plaster, 2½ stories, 30x40 feet, shingle roof, hot water heating, electric lighting, tile work, maple floors. Harry W. Koch, Drexel Hill, Pa., superintending construction. Work about to be started.

Hospital (add.), West Chester, Pa. Architect, W. W. Smedley, Stephen Girard Building, Philadelphia. Owners, Homeopathic Hospital of Chester County, West Chester, Pa. Stone and brick, reinforced concrete, 3 stories and basement, 64x38 feet, slag roof, steam heating, electric lighting, tile, marble work, rolled steel sash, hollow metal skylights, fire doors, ornamental iron work, reinforced concrete floors, hollow tile, metal lath, elevators, roof ventilators. Architect taking bids, due May 11th at 2 P. M. Metzger & Fisher, Otis Building, Philadelphia; Joseph M. Burns, Wm. H. Jones, Plummer & Jefferis, and Smedley & Hoopes, all of West Chester, Pa.; J. Myers & Sons Co., Witherspoon Building, and F. A. Havens & Co., 845 North Nineteenth street, Philadelphia, are figuring.

Farm House (alt.), Pine Forge, Bucks Co., Pa. Architect, Robt. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Mrs. David Rutter, Pine Forge, Bucks County, Pa. Frame and stucco, 2½ stories, asphalt or wood shingle roof, hot water heating, plumbing, tile work, metal lath. Architect taking bids, due May 12th. Wm. H. Wiand and F. H. Kaiser & Co., both of Pottstown, Pa., and John Fisher, Douglassville, Pa., are figuring.

Sales and Service Station, Allentown, Pa. Architect, Horace W. Custer, Stephen Girard Building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Brick, steel and concrete, 2 stories and basement, 50x125 feet, slag roof (heating, plumbing and electric work reserved), cement floors, rolled steel sash, metal window guards, waterproofing. Plans in progress.

Factory, Hazleton, Pa. Architects, Lockwood, Greene & Co., Park avenue and Fortieth street, New York City. Owners, Duplan Silk Co., Hazleton, Pa. Brick, reinforced concrete and stone, 4 stories, 319x106 feet, composition roof, electric lighting, and pine floors, terrazzo work, hollow tile, hollow metal sash, skylights and doors, safety treads, roof ventilators, waterproofing, wire work, ornamental iron work. Architects have received bids.

Residences (5), Lancaster, Pa. Architect, M. R. Evans, Lancaster, Pa. Owners, Bowman & Kendig, Lancaster, Pa. Brick, 3 stories, 20x50 feet, slag roof, hot air heating, hardwood floors, tile work, electric lighting. Owner taking bids, due as soon as possible. Ray Clark and Meilezer & Witmer, Lancaster, Pa., are figuring.

Residence, Lancaster, Pa. Architects, Estep & Shaub, Lancaster, Pa. Owner, W. D.

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BOTH PHONES

FROM THE
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April 15, 1917

"TO the men who run the railways of the country, whether they be managers or operative employees, let me say that the railways are the arteries of the nation's life, and that upon them rests the immense responsibility of seeing to it that those arteries suffer no obstruction of any kind, no inefficiency or slackened power.

"To the merchant let me suggest the motto, 'Small profits and quick service'; and to the shipbuilder the thought that the life of the war depends upon him. The food and the war supplies must be carried across the seas no matter how many ships are sent to the bottom. The places of those that go down must be supplied and supplied at once.

"To the miner let me say that he stands where the farmer does. The work of the world waits on him. If he slackens or fails, armies and statesmen are helpless. He also is enlisted in the great service army.

"The manufacturer does not need to be told, I hope, that the nation looks to him to speed and perfect every process; and I want only to remind his employees that their service is absolutely indispensable and is counted on by every man who loves the country and its liberties.

"It is evident to every thinking man that our industry on the farms, in the shipyards, in the mines, in the factories, must be made more prolific and more efficient than ever, and that they must be more economically managed and better adapted to the particular requirements of our task than they have been; and what I want to say is that the men and the women who devote their thought and their energy to these things will be serving the country and conducting the fight for peace and freedom just as truly and just as effectively as the men on the battlefield or in the trenches.

"This is the time for America to correct her unpardonable fault of wastefulness and extravagance. Let every man and every woman assume the duty of careful, provident use and expenditures as a public duty, as a dictate of patriotism which no one can now expect ever to be excused or forgiven for ignoring."

In accordance with the suggestion of the President that his appeal receive widespread publicity, these extracts from his Proclamation occupy the advertising space scheduled for this month by The Autocar Company, of Ardmore, Pennsylvania.

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WHEEL- BARROWS

Rohrer, 48 S. Ann street, Lancaster, Pa. Brick, 2½ stories, slag roof, steam heating, electric lighting, tile work, hardwood floors. Architect has received bids.

Residence (alt. and add.), E. Range street, Lancaster, Pa. Architect, Frank J. Everts, Woolworth Building, Lancaster, Pa. Owner, J. Strang, on premises. Brick, 2 stories, 21x25 feet, slag roof, electric lighting, hardwood floors. Architect taking bids, due as soon as possible. W. H. Flick, Samuel Bally and Wm. Wiant, all of Lancaster, Pa., are figuring.

Factories (2), Pottstown, Pa. Architect, not selected. Owners, Light Mfg. & Foundry Co., Pottstown, Pa. Brick and mill construction, 3 stories, 30x176 feet and 60x250 feet. Work contemplated.

Factory (add.), Pottstown, Pa. Architect, private plans. Owners, Light Manufacturing and Foundry Company, Pottstown, Pa. Brick, 2 stories, 50x110 feet, slag roof, electric lighting. Plans in progress.

Factory (add.), Fleetwood, Pa. Architect, Wayne M. High, 11 N. Fifth street, Reading, Pa. Owners, Fleetwood Metal Body Co., Fleetwood, Pa. Brick, 3 stories, 123x60 feet, electric lighting, heating undecided, concrete and wood floors, elevators. Plans in progress.

Residence and Garage, Straoustown, Pa. Architect, Wayne M. High, 11 North Fifth street, Philadelphia. Owner, Mr. Hix, Straoustown, Pa. Stone and stucco, 2½ stories, 34x40 feet and 1 story, 40x90 feet, wood and concrete floors, tile work, metal lath, gasoline storage system. Plans in progress.

Bungalow, Hamburg, Pa. Architect, G. L. Gerhard, 619 Penn street, Reading, Pa. Owner, W. E. Schmick, Hamburg, Pa. Stone, 1½ stories, 32x51 feet, shingle roof, wood floors. Owner sub-letting all contracts.

Barn, Landis Store, Pa., \$5,000. Architect, L. D. Lance, Reading, Pa. Owner, John Rhoads, Landis Store, Berks County, Pa. Stone and frame, 2 stories, 50x114 feet, slate roof, wood floors. Owner taking sub-bids.

Store (alt.) and Residence, Stowe, Pa. Architect, Arthur Kepner, 121 North Hanover street, Pottstown, Pa. Owner, Samuel Striker, Stowe, Pa. Brick, 3 stories, slate roof, electric lighting, hardwood and yellow pine floors. Owner has received bids.

Lodge Building (alt.), Sixth street, Reading, Pa. Architect, Harris W. Kiehl, Chicago, Ill. Owners, Rajah Temple of Mystic Shriners, Geo. F. Eisenbrown, chairman building committee, Muhlenberg Township, Pa. Brick and stone, 3 stories, 80x210 feet, heating not decided, electric lighting. Owner taking bids, due as soon as possible. Daniel H. Hunter, F. H. Pocht & Son, W. A. Sharp, Beard Const. Co., and Chas. Schlegel, all of Reading, Pa., are figuring.

School (rebuilding), Slatington, Pa. Architect, Ed. Z. School, 31 N. Sixth street, Reading, Pa. Owners, School Board of Slatington, P. M. Snyder, Slatington, Pa. Brick, 2 stories and basement, 96x82 feet, slate roof, hot air heating, electric lighting, wood floors. Owners have received bids.

School House (alt. and add.), Newmans-town, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owners, Mill Creek School District, Newmans-town, Pa. Brick, 2 stories, 60x150 feet, slag roof, direct and indirect ventilating, electric lighting, and yellow pine floors, metal lath, fire escapes, iron stairs, roof ventilators. Architect taking bids, due May 19th. Chas. Schlegel, Daniel H. Hunter and Adams Spotts, all of Reading, Pa., are figuring.

Residence and Garage, Lititz, Pa., \$6,000. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, name withheld. Brick, 3 stories, 36x38 feet and 22x32 feet, slate roof, wood floors, hot water heating, electric lighting, tile work, wood floors, gasoline storage system. Plans in progress.

Plant (extension), Lancaster, Pa. Architect, not yet selected. Owners, Monitor Bi-Loop Radiator Co., Lancaster, Pa. Brick. Details not decided.

Residence, E. King street, Lancaster, Pa. Architect, Frank J. Everts, Woolworth Building, Lancaster, Pa. Owner, Chas. Demuth, E. King street, Lancaster, Pa. General interior alterations, hardwood floors, tile work. Plans in progress.

Residence (alt. and add.), Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, J. Fred Fisher, Lancaster, Pa. Brick, 3 stories, 34x60 feet, tin and slag roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

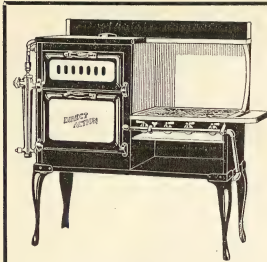
Residence, Lewistown, Pa., \$10,000. Architect, John B. Hamme, Wiest Building, York, Pa. Owner, J. B. Selheimer, Lewistown, Pa. Brick and stone, 2½ stories, 50x40 feet, slate roof, vapor heating, electric lighting, hardwood floors, weatherstrip, tile and marble work. Revised plans in progress.

Residence, Hanover, Pa., \$50,000. Architect, John A. Dempwolf, Centre Square, York, Pa. Owner, C. E. Moul, care of architect. Brick and stone, 2½ stories, 35x50 feet, slate roof, electric lighting, hardwood floors, heating not decided, tile and marble work. Owner taking sub-bids.

Mausoleum, Hanover, Pa., \$20,000. Architect, Edw. Leber, Hay Building, York, Pa. Owners, York Mausoleum Co., J. R. Smith, Easton, Pa. Marble, granite and bronze, 1 story, 44x28 feet, tile roof, marble floors, tile and marble work. Owner taking bids, due in about two weeks.

Store, Factory and Apartments (alt. and add.), W. Market street, York, \$20,000. Architect, Edw. Leber, Hay Building, York, Pa. Owner, H. B. Beard & Co., York, Pa. Brick, 3 stories, 230x32 feet, slag roof, steam heating, wood floors, electric lighting. Architect has received bids.

Hotel, Third and Walnut streets, Harrisburg, Pa., \$1,000,000. Architects associate, W. L. Stoddard, 9 E. Fortieth street, New York City, and Esenwein & Johnson, Buffalo, N. Y. Owners, Penn-Harris Hotel Co., care of E. Z. Wallower, president, Harrisburg, Pa. Reinforced concrete, terra cotta and stone, 12



THE DIRECT ACTION

A Wonderful Cooking Appliance that will positively

SAVE GAS SAVE FOOD
SAVE TIME SAVE WORRY

Besides adding to the beauty of the kitchen.

Its patented heat regulator solves the cooking question.

A demonstrating range is on our sample floor for your inspection.

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Both will recommend our work

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To conduct a business of

BUILDING CONSTRUCTION

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NO PLANS PREPARED

stories, 104x130 feet, composition roof, steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal skylights, fire, kalamena, and hollow metal doors, dampproofing and water-proofing, fire escapes, ornamental iron work, maple, cement and pine floors, hollow tile, metal lath, elevators, roof ventilators, metal window guards, wire work. W. L. Stoddart, 9 E. Fortieth street, New York City, taking bids, due May 14th. Doyle & Co., 1509 Sansom street, and Chas. McCaul Co., 1713 Sansom street, Philadelphia, are figuring.

Post Office, State College, Pa. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Brick, stone and terra cotta, 1 story and basement. Owners ready for bids, due June 12th, at 3 P. M.

Passenger Station, Merion, Pa. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Company, Broad Street Station, Philadelphia. Brick and plaster, 1 story, 38x13 feet and 9x16 feet, slate roof, steam heating, electric lighting, metal lath, maple floors, terrazzo work, marble work, metal window guards (cement demolition, paving, grading, platforms, P. O. fixtures reserved). Owners, care of W. B. McCaleb, superintendent of Harrisburg Division, taking new bids, due May 15th at 11 A. M. J. Sims Wilson Co., 1125 Brown street; Monaghan & Losse, Inc., 3016 Chestnut street; Graham-Campion Co., Otis Building; Jacob Myers & Sons Co., Witherspoon Building; and Metzger & Fisher, Otis Building; Mutual Eng. Co., Franklin Building; E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia; Charles C. Pace, Merion, Pa., are figuring.

Bungalow, Upper Black Eddy, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Arthur C. Shaw, Upper Black Eddy, Pa. Frame, 1½ stories, 36x30 feet, shingle roof,

yellow pine floors. Owner is taking sub-bids.

Highland School, Lower Solebury Township, Bucks County, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Solebury Township School District, Harry Vassel, president. Stone, 1 story, 40x27 feet, slate roof, maple floors, Hero system of heating. Plans completed.

School (alt. and add.), Carversville, Upper Solebury Township, Bucks County, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Solebury Township School District, Harry Vassel, president. Stone, 1½ stories, 81x38 feet, slate roof, American ventilating system of heating, maple floors. Plans completed.

Garage, between Tenth and Eleventh streets, on Saville avenue, Eddystone, Pa. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, J. M. Kennedy, 1001 Chestnut street, Philadelphia. Brick, 1 story, 58x110 feet, slag roof, steam heating, electric lighting, rolled steel sash, gasoline storage system. Plans completed. Owner ready for sub-bids.

Store and Residence, Third and Franklin streets, Chester, Pa. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Dr. Nicholas Albanese, 331 West Third street, Chester, Pa. Brick, terra cotta and stone, 3 stories, 16x60 feet, hot water heating, electric lighting, slag and canvas roof (roof garden), cabinet work, metal weatherstrips, metal ceilings, flush bulks. Architect will take bids in about one week.

Residence, Cynwyd, Pa. Architects, E. F. Durang & Son, 1220 Locust street, Philadelphia. Owner, Wm. L. Henderson, Narberth, Pa. Stone, 2½ stories, 40x32 feet, shingle roof, hot water heating, electric lighting, hardwood floors, tile work. Owner taking bids. J. Paul Emrey, North Wynnefield, Pa., and James MacMachon, Narberth, Pa., are figuring.

School Building, Yardley, Bucks County, Pa.

Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School District of Borough of Yardley, E. E. Yeager, secretary of School Board, Yardley, Pa. Stone, concrete and brick or hollow tile and plaster, 1 story, 148x102 feet, slate, tin and copper roof (plumbing, heating, ventilating, electric work and fixtures reserved), cement, oak, gum and pine floors, metal lath, hollow metal skylights. Lowest bids submitted by: Charles Y. Barlow, Trenton, N. J., \$36,367; Wills-Ludwick Co., 34 South Seventeenth street, Philadelphia, \$48,382; James H. Wells, Otis Building, Philadelphia, \$48,957.

Magazine Buildings (3), Shell House and Office Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, Navy Department, F. R. Harris, chief, Washington, D. C. Reinforced concrete, brick and steel, 1 and 2 stories, 50x200 feet and 30x52 feet, slag and asbestos roof (heating and lighting reserved), cement and pine floors, hollow metal sash, fire doors. Low bidders, McCloskey & Bahls, 1620 Thompson street, Philadelphia.

There's one variety of advertiser who gets our Angora. This is the chap who can't afford a large space and doesn't advertise, as a regular thing, because a small space "isn't seen." Some of the biggest advertisers we have started out with small space. Ask them whether the small space is seen. If advertisers had to wait until their businesses developed to full page stature before advertising, there'd be mighty few advertisers. The big man becomes big by growth. And growth starts with the seed.

Small ideas, small methods, small men are becoming antiquated. This is the day of the broad outlook and big doings.

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. DAVID FRANCE CO., Tasker Street, Wharf, Delaware River, Philadelphia.

W. J. BAKER CO.'S

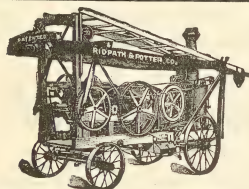
All Metal Frame Screens and Wood Frame Screens

FOR EVERY KIND OF BUILDING WHERE QUALITY IS DESIRED

W. J. BAKER CO.

1927 W. Montgomery Ave., Philadelphia, Pa.

Bell—goo, Diamond.



We Drill Wells and Get Water Test Borings and Soundings

LET US SUBMIT PRICES

RIDPATH & POTTER CO

587 Bourse Building
Philadelphia, Penna.

PENNSYLVANIA Contracts Awarded

Y. M. C. A., Lewistown, Pa., \$75,000. Architect, John B. Hamme, Wiest Building, York, Pa. Owners, Y. M. C. A., Lewistown, Pa. Brick and stone, 3 stories, 80x120 feet, steam heating, electric lighting, tile work, wood floors, hollow tile, metal lath. Low bidders, Steinbach Sons, Lewistown, Pa.

Church, Red Lion, Pa. Architect, John B. Hamme, Wiest Building, York, Pa. Owners, United Evang. Congregation, Red Lion, Pa. Granite and stone, 1 story and basement, 105 x75 feet, slate roof, steam heating, electric lighting, wood floors. Contract awarded to Frank J. Colgan, 2205 North Broad street, Philadelphia.

Residence, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Chas. E. Tucker, York, Pa. Brick and stucco, 2½ stories, 30x40 feet, red tile roof, hot water heating, electric lighting, hardwood floors. Contract awarded to I. Reindollar & Son, York, Pa.

Womans Club House, Lancaster, Pa. Architect, John B. Hamme, Wiest Building, York, Pa. Owners, Woman's Club of York, Pa. Brick, 1 story, 40x80 feet, slag roof, vapor heating, electric lighting, tile work, wood floors. Contract awarded to Hess Bros., York, Pa.

Residence, Chambersburg, Pa. Architect, Robert Stair, York, Pa. Owner, John McDowell, Chambersburg, Pa. Brick, 2½ stories, slate roof, hot water heating, electric lighting, wood floors. Contract awarded to Chas. E. Cump, Chambersburg, Pa.

Bridge No. 44 (rebuilding), south of Sunbury, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, P. & R. RR., Reading Terminal, Philadelphia. Steel and concrete, waterproofing, 120 feet clear span. Contract for substructure awarded to Cantrell Const. Co., Twenty-first and

Sedgley avenue, Philadelphia. Contract for superstructure awarded to Phoenix Bridge Co., 410 Walnut street, Philadelphia.

Bridge No. 60 (rebuilding), over Strickland Run, south of West Milton, on the S. S. & L. RR. Line, Pa. Architect, private plans. Owners, P. & R. RR. Co., Reading Terminal, Philadelphia. Concrete and steel, 30 feet span. Contract awarded to Wm. E. Riebe, Tamaqua, Pa. Waterproofing awarded to H. W. Johns-Manville Co., 214 North Broad street, Philadelphia.

Residence, Penfield, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John L. De Mar, 1827 North Thirty-first street, Philadelphia. Frame, 2½ stories, 30x35 feet, shingle roof, hot air heating, electric lighting, tile work, hardwood floors. Contract awarded to J. Paul Emrey, North Wynnefield, Pa.

Office and Factory, Pottstown, Pa. Architect, Arthur Kepner, 121 N. Hanover street, Pottstown, Pa. Owners, North American Motor Co., Pottstown, Pa. Brick and steel, 2 stories, 72x48 feet (steam heating and electric work reserved). Barrett specification roof, steam heating, electric lighting. Contract awarded to F. H. Kaiser & Co., Pottstown, Pa.

Stores (3) and Apartments, Wyncote, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Dr. J. O. Bower, Wyncote, Pa. Brick, frame and plaster, 2 stories, 60x65 feet, shingle and tile roof (vapor heating reserved), tile work, pine floors. Contract awarded to Specht & Sperry, Hoed Building, Philadelphia.

Residence (alt. to apt. house), Lansdowne, Pa., \$7,500. Architect, Frank A. Hays, 1524 Chestnut street, Philadelphia. Owner, Mrs. Seymour Eaton, care of architect. Stone and plaster, 3 stories, 70x50 feet, shingle roof, hardwood floors (hot water heating and elec-

tric work reserved). Contract awarded to Gilligan & Son, Clifton Heights, Pa.

Residence, Bryn Mawr, Pa. Architects, Peabody & Stearns, 53 State street, Boston, Mass. Owner, Livingstone L. Biddle, Bryn Mawr avenue, Bryn Mawr, Pa. Stone, 3 stories, 106x28 feet, wing 40x38 feet, slate roof, pine floors, metal lath, tile and marble work (heating and lighting reserved). Contract awarded to Milton W. Young, Overbrook, Pa.

Residence, Doylestown, Pa., \$5,500. Architect, Oscar S. Leidy, Doylestown, Pa. Owner, J. Kirk Leatherman, Doylestown, Pa. Hollow tile and stucco, 2½ stories (electric lighting fixtures and combination range reserved), slate roof, yellow pine floors, hot water heating, electric lighting, hollow tile. Contract awarded to Richard Rucker, Doylestown, Pa.

Residence and Garage, Hatboro, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Walter Reading, 1625 Dyre street, Frankford. Hollow tile, 2½ stories, 35x26 feet, Green slate roof, hot water heating, electric lighting, hardwood floors, hollow tile. Contract awarded to John Ramsely, Ivyland, Pa.

School, Fallsington, Bucks County, Pa., \$25,000. Architect, A. Oscar Martin, Doylestown, Pa. Owners, School Board of Fallsington, Bucks County, Pa. Hollow tile and brick (fireproof construction), 1 story, 89x90 feet, slate roof, steam heating, electric lighting, concrete floors, hollow tile. Contract awarded to F. H. Ewald, Morrisville, Pa.

Factory (add.), Lansdale, Pa. Architect, S. S. Conyer, Lansdale, Pa. Owner, A. J. Brumbach, Lansdale, Pa. Brick, 2 stories and basement, 30x60 feet, asbestos shingle roof, steam heating, electric lighting, metal lath, fire doors, maple floors. Contract awarded to Charles Schlegel, Reading, Pa.

Department Store (alt.), Main and De Kalb streets, Norristown, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, L. E. Taubel, Norristown, Pa. Store front, asbestos or slag roof, yellow pine and maple floors, electric lighting (store fixtures reserved). Contract awarded to Wm. Schaffner, Norristown, Pa.

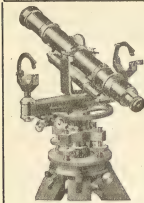
Rectory, Conshohocken, Pa. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Matthew's R. C. Church, care of Rev. James P. Parker, Conshohocken, Pa. Stone, 3 stories, 37x68 feet, slate and slag roof, cement, oak and pine floors, terrazzo work, tile and marble work, metal window guards (plumbing, heating, electric work reserved). Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Bungalow, Lansdale, Pa. Architect, S. S. Conyer, Lansdale, Pa. Owner, Eli Crup, Lansdale, Pa. Brick and stucco, 1½ stories, 45x34 feet, slate roof, hot water heating, electric lighting, oak floors. Contract awarded to Ludwig Kaelin, Lansdale, Pa.

It isn't enough to just advertise. There is competition these days in advertising, as in other things. You must make your advertising attractive. You must make it say something,—something definite, original and convincing. If you lack faith in your own ability to do this, let us do it for you. Give us the facts. Talk to us just as you would to a prospective buyer. That is the kind of talk that makes profitable advertising. We'll look after the verbal frills. That's our business.

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

Buy pure lime, 99% pure, no core, no grit. **DAVID FRANCE CO.**
Tasker Street Wharf, Delaware River, Phila. Both 'phones.



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"Sterling" Transits and Levels?

If not, it will pay you to investigate at once their time-saving features and advantages.

Write Today for Pamphlet with Photo-reproductions and Specifications of our latest Models.

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We
repair
Transits
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Tapes, &c.

136 N. 12th Street

Rebuild
Instruments
For Sale
or Rent

NEW JERSEY

Construction News

Factory (add.), Trenton, N. J., \$10,000. Architect, J. O. Hunt, 114 N. Montgomery st., Trenton, N. J. Owners, De Lion Tire & Rubber Co., E. State street, Trenton, N. J. Brick, 2 stories addition, 50x112 feet, concrete and slag roof, reinforced concrete floors, steam heating, hollow tile, elevators, safety treads, roof ventilators, metal window guards, fire escapes, iron stairs. Plans in progress.

Factory, E. State street, Trenton, N. J., \$7,000. Architect, J. O. Hunt, 114 N. Montgomery street, Trenton, N. J. Owners, De Lion Tire & Rubber Co., E. State street, Trenton, N. J. Reinforced concrete, 1 story, 20x60 feet, concrete roof, concrete floors, steam heating, electric lighting, rolled steel skylights. Plans in progress.

Bakery (add.), Pennington avenue and Monroe street, Trenton, N. J. Architect, W. W. Slack & Son, American Mechanics Building, Trenton, N. J. Owner, Robt. C. Kolb, Willow street, Trenton, N. J. Brick, 2 and 1 stories, 39x100 feet, slag roof, electric lighting, Lupton sash. Architect has received bids.

Store and Print Shop, Hopewell, N. J. Architect, J. Osborne Hunt, 114 North Montgomery street, Trenton, N. J. Owner, E. C. Savidge, Hopewell, N. J. Brick and terra cotta, 2 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, metal ceilings, store front, tile work. Architect ready for revised bids.

Bungalows (250), Browns Mills and Beechwood, N. J. Architect, Andrew Charles Borzner, 721 Walnut street, Philadelphia. Owners, Rhodenberg Co., Inc., 110 West Fortieth street, New York City. Frame, various sizes, shingle roof, electric lighting. Plans in progress. Will build in the coming year.

Bank Building, corner Broadway and Carman streets, Camden, N. J. Architect, Paul A. Davis, 3d, 1713 Sanson street, Philadelphia. Owners, Merchants' Trust Co., on premises. One story and mezzanine, 40x90 feet. Preliminary plans in progress. Details not yet decided.

Warehouse, Front, Division and Spring sts., Camden, N. J. Architect, Joshua C. Jefferis, 1001 Chestnut street, Philadelphia. Owners, Potter Express Co., 657 South Second street, Camden, N. J. Brick (slow burning), 1 story, 106x183 feet, slag roof, cement and maple floors (heating, plumbing, electric work reserved). Owners taking new bids.

Church (alt. and add.), Rosemont, N. J., \$40,000. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Episcopal Church of the Good Shepherd, Rosemont, N. J. Stone, 1 story, slate roof, tile floors, steam heating and

electric lighting extension, tile and marble work, metal lath, roof ventilators. Plans in progress.

Workshop, Bordentown, N. J., \$12,000. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, Manual Training and Industrial School for Colored Youths, Bordentown, N. J. Brick and concrete, 1 story, 42x110 feet, wing 15x25 feet, slag roof, steam heating, electric lighting, rolled steel sash, concrete floors, hollow tile, roof ventilators. Revised plans in progress.

Garage, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owner, Hugh D. Trout, 11 Belmont avenue, Trenton, N. J. Hollow tile and stucco, 2 stories, slate roof, cement floors, electric lighting. Revised plans in progress.

Theatre Building, Salem, N. J. Architect, private plans. Owner, Arthur B. Smith, Salem, N. J. Brick, 1 story and basement and gallery, 32x158 feet, slag roof, heating undecided, electric lighting, wood floors. Plans completed.

Bakery (add.), Willow and Pennington avenue, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Robert C. Kolb, on premises. Brick, 2 stories, 100x39 feet, slag roof, yellow pine and maple floors, rolled steel sash, fire doors. Architects taking bids, due May 9th. Burton & Burton, American Mechanics' Building; S. W. Mather & Son, Greenwood and Canal streets; Scott & Day, 114 Montgomery street; Charles J. Smith, 63 Maple avenue; I. H. Clayton, American Mechanics' Building; Charles Randall, Hermitage avenue; Ed. Le Rue, Hermitage avenue; Wm. Ivins, Samuel Hilton, 14 Ellsworth avenue, all of Trenton, N. J., are figuring.

Fire Station, Vineland, N. J. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, office of Commissioners, City Hall, Vineland, N. J. Brick, 2 stories, 29x70 feet (hot water heating reserved), Barrét roof, electric lighting, concrete and pine floors. Owners taking bids, due May 11th. The Mutual Eng. Co., Franklin Building, Philadelphia, is figuring.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

He would save the commission of the architect, but ruin the store.

The Answer

"Yes, Mr. Builder," said the prospective house buyer, "your house looks fairly complete. But what provision have you made for giving me quick heat in the mornings and evenings of the late Spring and early Fall when it isn't practical to have the house heating system going?"

"We've provided the only practical and economical method," replied the up-to-date builder. "You'll find one of these Baseboard Gas Outlets in each room, to which you can connect a gas heating stove quickly and have the desired heat immediately."

Ask our New Building Representative for details.

THE UNITED GAS IMPROVEMENT CO.

Builders and Operators Division

134 North 13th Street

Telephones:

Bell—Locust 1300 Keystone—Race 30

New Jersey Contracts Awarded

Office Building, Plainfield, N. J., \$150,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Miles-Benent-Pond Co., 111 Broadway, New York City. Brick, concrete and steel, 2 stories and basement, 80x120 feet, composition roof, oak and maple floors, hollow tile, metal lath, tile and marble work, rolled steel sash, hollow metal doors, iron stairs, metal window guards, dampproofing (electric work and steam heating reserved). (Contract awarded to H. E. Eaton, Twelfth and Sanson streets, Philadelphia.)

Residence and Garage, Haddonfield, N. J., \$15,000. Architects, Custer & Seltzer, 302 Market street, Camden, N. J. Owner's name withheld. Hollow tile, 2½ stories, 48x45 feet, shingle roof, hot water heating, electric lighting, tile work, hardwood floors. Contract awarded to J. Ward Capern, Haddonfield, N. J.

DO IT NOW.

All we have is just this minute

Do It Now.

Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

You must sometime make a showing.

Do It Now.

This is the age in which one man DOES ONE THING. You can run your BUSINESS. Find a man who can RUN YOUR ADVERTISING.

Don't knock. Boost! Don't grouch. Smile! Don't mope. Advertise!

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

PRIVATE UTILITIES

Water Supply, Sewage Disposal, Lighting, Irrigation, Refrigeration for Residences, Farms, Country Places, Institutions.

We plan, design and install

HARRISON, MERTZ & EMLÉN, Inc.

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725-26 Commercial Trust Building, Philadelphia

INCLOSED PORCHES

For Winter and Summer

Specially designed to conform with the architecture of the residence. Special quotations on heating and lighting Inclosed Porches.

Diamond 900 Bell or Postal to

SAMUEL B. MAC DOWELL & SON

1927 W. Montgomery Avenue, Philadelphia, Pa.

DELAWARE

Construction News

Elks Club, Wilmington, Del. Architect, C. D. Thompson, Ford Building, Wilmington, Del. Owners, B. P. O. E. No. 307, Wilmington, Del. Brick, 5 stories. New preliminary plans in progress. Details not decided.

Residence (alt. and add.), Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Wm. Wyatt, 1413 Van Buren street, Wilmington, Del. Brick, 2½ stories, slag roof, wood floors, electric lighting. Architect ready for bids.

Garage, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, Frank S. Dure, 1509 Franklin street, Wilmington, Del. Brick, 2 stories, 23x30 feet, slag roof, electric lighting. Architect ready for bids.

Apartment House, Ninth and Washington streets, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Dr. Chas. Kinkade, Ninth and Washington streets, Wilmington, Del. Brick, 3 stories, 32x100 feet, asphalt roof, electric lighting, heating undecided, tile and marble work, hardwood floors, metal lath, iron stairs. Architect ready for bids.

Church, Wilmington, Del. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia.

Owners, Church of the New Jerusalem, Wilmington, Del. Stone. Plans in progress. Too early for details.

Garage, Wilmington, Del. Architects, Hope & Carlson, Ford Building, Wilmington, Del. Owner, Andrew DuPont Lee, Wilmington, Del. Brick, 2 stories, slag roof, concrete and wood floors, electric lighting, gasoline storage system. Architect has received bids.

Show Room and Shop, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owners, Foss Hughes Co., Wilmington, Del. Brick and stone, 1 story, 100x150 feet, Spanish tile roof, heating undecided, electric lighting, wood floors. Architect taking bids, due May 15th. Joyce & Kerrigan, Geo. Rodman, R. C. Tindall & Son, and Chas. J. Dougherty, all of Wilmington, Del., are figuring.

Sales and Service Station, Wilmington, Del. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Brick, steel and concrete, 2 stories and basement, 50x100 feet, slag roof (plumbing, heating and electric work reserved), cement floors, rolled steel sash, metal window guards, waterproofing. Plans in progress.

waterproofing, wire work. Architect taking bids, due May 12th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence (alt. and add.), Elkridge, Relay, Md. Architect, Laurence Hall Fowler, 347 N. Charles street, Baltimore. Owner, E. E. Bruce, care of Bartlett, Hayward & Co., Scott and Hamburg streets, Baltimore. Brick, 1½ stories, slate roof, electric lighting. Plans in progress.

Church (alt.), 509 Park avenue, Baltimore, Md. Architect, H. G. Jory, Munsey Building, Baltimore. Owners, Lutheran Church General Synod, C. M. Distler, chairman Building Committee, 217 St. Paul street, Baltimore. General remodeling of building into home for girls, general interior alterations, steam heating, electric work, plumbing, paintin, plastering. Plans in progress.

Residences and Farm Buildings (alt. and add.), Rolling Road, beyond Catonsville, Md. Architect, Ed. L. Palmer, Munsey Building, Baltimore. Owner, George Knapp, 1901 Light street, Baltimore. Stone and stucco work, slate roof, hot water heating, electric work, plumbing, hardwood floors, interior decorating. Garage, stone, cement floors. Plans completed. Builders, Glafelter & Chambers, Thirty-sixth street and Roland avenue, will take sub-bids.

Church, York Road near Bellona avenue, Baltimore. Architect, John Freund, Jr., 218 East Lexington street, Baltimore. Owners, Gregory Memorial Church, Rev. O. P. Gregory, York Road and Lyman avenue, Baltimore, Md. Plans in progress. Too early for details.

Church, Charles street and University Parkway, Baltimore, \$30,000. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owners, A. W. Wilson Memorial M. E. Church (South), J. Wm. Smith, 3013 Guilford avenue, Baltimore, Md. Foundations and first floor only, brick, stone trim, steam heating, electric work. Plans in progress. Too early for details.

Residence, Charles-Street avenue, Baltimore, \$25,000. Architects, Silbuckler & Fenhagen, 11 East Pleasant street, Baltimore. Owner, N. Winslow Williams, Fidelity Building, Baltimore. Brick, 2½ stories, slate roof, electric lighting. Plans in progress.

School Building, Liberty Heights avenue, near Ashburnton Park, Md., \$75,000. Architects, Smith & May, 133 Calvert Building, Baltimore. Owners, Park School, Dr. Hans Froelicher, 3440 Anthonetory Terrace, Baltimore, Md. Brick or frame. Plans in progress. Too early for details.

Open Air Theatre, Poutney, near Light street, Baltimore. Architect, O. B. Wight, Munsey Building, Baltimore. Owners, McHenry Theatre Co., Fidelity Building, Baltimore. Cement floors, 61x73 feet, 10-foot board fence, electric work. Plans in progress.

Bakery (add.), 2500-10 Booth street, Baltimore. Architect, J. Franklin Nelker, 330 N. Charles street, Baltimore. Owners, Becker Baking Co., on premises. Brick, 1 story, 50x50 feet, slag roof, maple floors, concrete work (electric work reserved). Plans completed. Owner ready for bids.

School, Linwood, Fleet and Streeter streets, Baltimore, Md., \$100,00. Architect, A. Cookman Leach, 223 North Charles street, Baltimore. Owners, City of Baltimore, Md., James H. Preston, Mayor, City Hall, Baltimore. Brick, 3 stories, slate or slag roof, steam heat, electric lighting. Owners, care of J. J. Byrne, Building Inspector, City Hall, Baltimore, taking bids, due May 16th. Plans may be obtained from same office.

Home (add.), Broadway and Thames street, Baltimore. Architects, Owens & Sisco, Conti-

MARYLAND

Construction News

Packing Plant, Baltimore, Md. Architect, C. B. Constock, 110-12 West Fortieth street, New York City. Owners, Seaboard Packing Co., Baltimore, Md. Reinforced concrete and steel, stone, 3½ stories and sub-basement, 164

x110 feet, composition roof (elevator and lighting reserved), concrete, pine and brick floors, rolled steel sash, hollow metal skylights, fire and hollow metal doors, iron stairs, hollow tile, roof ventilators, metal window guards,

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.**

mental Building, Baltimore. Owners, The Anchorage, on premises. Brick, stone trim, 4 stories, 25x55 feet, concrete foundations, slug roof (electric lighting, steam heating and plumbing reserved), plastering and painting, iron work. Architects taking bids, due May 10th. Chas. L. Stockhausen Co., Gay and Water streets; R. H. Frazier & Son, 224 West Mulberry street; Consolidated Eng. Co., Calvert Building; Joseph Schanberger & Son, 1 North Duncan street; B. F. Bennett Building Co., 123 South Howard street, and Herbert & Prodoehl, Munsey Building, all of Baltimore, Md., are figuring.

Bungalow, Hill Top Park, Md., \$8,000. Architect, Oliver B. Wight, Munsey Building, Baltimore. Owner, H. A. Slagel, care of Webb & White, Title Building, Baltimore. Hollow tile, stucco, 2½ stories, slate roof, electric work, painting and heating, tile work, hardwood floors. Owner will take sub-bids.

Residence, 3415 Carlisle avenue, Baltimore. Architect, Frank Nelker, 330 North Charles street, Baltimore. Owners, Milton & Otto Langrall, Clinton and Third streets, Baltimore, Canton, Md. Stone foundation, frame, 3 stories, 45x29 feet, slate roof, electric lighting (heating, tile work and electric fixtures reserved), metal ceilings, ventilators, plastering, painting, incinerator. Architect taking bids, due May 10th. W. E. Burnham, Law Building; A. Knell, Jr., Law Building; Chas.

Gerwig, 2238 West North avenue, and E. G. Turner, 15 East Fayette street, Baltimore, are figuring.

Store and Dwelling, Pulaski and Lexington streets, Baltimore. Architect, John K. Forsythe, 232 St. Paul street, Baltimore. Owner, W. L. Weber, 2101 West Lexington street, Baltimore. Brick and stone, 2 stories, 20x100 feet, composition roof, electric lighting (heating reserved), metal ceilings, plastering, tile work, wire work. Architect taking bids, due May 11th. Fred Decker & Son, 1209 East Middle street; L. J. Brown, Park Heights and Belvidere avenue, and Pliny P. Day, 163 Montebello Terrace, all of Baltimore, Md., are figuring.

Packing Plant, Baltimore, Md. Architect, C. B. Constock, 110-12 West Fortieth street, New York City. Owners, Seaboard Packing Co., Baltimore, Md. Reinforced concrete and steel, stone, 3½ stories and sub-basement, 164 x110 feet, composition roof (elevator and lighting reserved), concrete, pine and brick floors, rolled steel sash, hollow metal skylights, fire and hollow metal doors, iron stairs, hollow tile, roof ventilators, metal window guards, waterproofing, wire work. Architect taking bids, due May 12th. Crump & Co., Denekla Building; Warren-Moore & Co., Commercial Trust Building, and Irwin & Leighton, 126 North Twelfth street, all of Philadelphia, are figuring.

Factory, Fifty-eighth and Botanic avenue, \$4,000; \$8,000. Gulf Refining Co. (O), on premises. Smith-Hardican (C), 1606 Cherry street. Frame, 1 story, addition, 40x40 feet, 2 stories addition, 30x100 feet.

Garage, corner of A and Tioga streets, \$1,000. Ben Hosking (O), on premises. Sam Morrison (C), 515 W. Erie avenue. Brick, 1 story, 69x20 feet, slag roof, cement floors, hot water heating.

Dwellings (3), Krames avenue and Mitchell street, \$6,600. Jas. Stewart (O and C), 4552 Manayunk avenue. Stone and brick, 2 stories, 16x40 feet, slag roof, hot water heating. Garage, 142 Rector street, \$400. Felix Quinn (O), on premises. E. L. Cuthbertson (C), 334 Roxborough avenue. Stone, 1 story, 20x20 feet, slate roofing.

Dwellings (18), Seventh and Boulevard, \$110,000. John Shenkmyer (O and C), 233 Duncannon avenue. Brick, 3 stories, 30x24 feet, slag roofing, hot water heating.

Garage, 3071 Gowan avenue, Mt. Airy, \$1,500. John Derham, Jr. (O), on premises. Seeds & Derham (C), 6314 Wissahickon avenue. Brick, 1½ stories, 18x26 feet, slate roof, cement and wood floors, hot water heating, electric lighting.

Alterations and Additions

Store, Broad and Columbia ave., \$1,600. U. Cigar Store (O), Broad and Columbia avenue. Smith Hardican (C), 1606 Cherry st. New flush bulk and interior alterations.

Dwellings, 3413-15 Race street, \$35,000. Stein Realty Co. (O), 3413 Race street. Philip Hallback Cont. Co. (C), 1261 North Twenty-sixth street. Change dwelling house into tenement house, 3 stories, 32x25 feet, rear addition, slag roof.

Smoke Stack, American, north of Huntingdon street, \$2,200. Sheard & Miller Co. (O), Fourth and Somerset streets. H. R. Hernick Inc. (C), Stephen Girard Building. Hard brick, 100 feet high, built on concrete foundations.

Chimney, Wheatsheaf lane and Sepviva sts., \$2,125. American Eng. Co. (O), Cumberland and Aramingo streets. H. R. Hernick, Inc. (C), Stephen Girard Building. Brick chimney, 100 feet high, on owners' concrete foundations.

Millinery Store, 1524 Locust street, \$5,500. Leroy Henningway (O), on premises. Frank Stewart (C), 1619 Sanson street. Brick, steel windows and door, new partitions and interior alterations.

Boiler House, A and Allegheny ave., \$2,500. A. Holmes & Son, Inc. (O), on premises. M. Ward Easby, Inc. (C), 1420 Chestnut street. Brick, 16x47 feet, slag roof, addition.

Factory, Swanson and Snyder ave., \$1,625. General Mfg. Co. (O), on premises. Henry P. Friend, Inc. (C), Boyer Arcade Building, Norristown, Pa. Brick, 18x50 feet, 1 story addition, slag roof.

Dwelling, Allen lane, Twenty-first ward, \$2,000. Sarah Futti (O), on premises. Wm. Magarity (C), 349 W. Mt. Airy avenue. Brick addition, 17x12 feet, rear, tin roof.

School, Ninth and Lindley streets, \$52,000. Board of Education of Philadelphia (O), Nineteenth and Blarner streets. Melody & Keating (C), 1322 Race street. Brick, 3 stories, 30x30 feet, composition roof.

Tank, Christian and Twenty-sixth streets, \$2,500. Philadelphia Electric Co. (O), Tenth and Chestnut streets. Guarantee Const. Co. (C), New York City. Repair old concrete tank.

MARYLAND

Contracts Awarded

Powder Dry Houses (3), Indian Head, Md., \$27,060. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Dept., Washington, D. C. Brick, concrete and steel, 1 story, corrugated iron roof. Contract awarded to John W. Nolan Const. Co., Washington, D. C.

Building (alt. and add.), 19-21 South st., Baltimore, Md., \$42,300. Architect, Edward H. Glidden, Garrett Building, Baltimore, Md. Owners, Furness, Withy & Co., care of A. W. Sidebotham, Chamber of Commerce Building, Baltimore. Brick and stone, 2 stories, slag roof, steam heating, electric lighting, skylights, dampproofing, hollow tile, stucco, metal lath, tile, marble and terrazzo work, cement floors, wire screens, hardware. Contract awarded to H. D. Watts Co., Garrett Building, Baltimore, Md.

Garage and Service Building, Oakington, Md., \$25,000. Architect, Clyde N. Friz, Mun-

sey Building, Baltimore. Owner, Commodore H. Richards, Oakington, near Havie de Grace, Md. Brick, 2½ stories, shingle roof, hot water heating, electric lighting, plastering, painting, plumbing, tile work. Contract awarded to John P. Kunkel, 29 South Linwood avenue, Baltimore.

Garage, 308 East Thirty-third street, Baltimore, Md. Architect, O. B. Wight, Munsey Building, Baltimore. Owner, P. F. Obrecht, 1123 Light street, Baltimore. Concrete block, 1 story, slag roof, cement floor, electric light. Contract awarded to Ernest Hoose, Glenburnie, Md.

Warehouse, 5 to 23 West Henrietta street, Baltimore, Md., \$20,000. Architect, private plans. Owner, Chas. G. Kriel, on premises. Brick and concrete (fireproof), 5 stories, 26x121 feet, slag roof, electric lighting. Contract awarded to Henry Pierson & Son, 1000 Olive street, Baltimore.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Dwelling, West View avenue and Green st., \$12,000. B. Lane (O), Germantown, Pa. C. E. Lloyd, Jr. (C), Oak Lane. Stone, hollow tile, 40x30 feet, shingle roof second floor, hot water heating.

Garage, 1909 North Broad street, \$795. A. H. Mershon (O), on premises. E. J. Kreitzburg (C), 1345 Arch street. Brick, 1 story, 15x22 feet, slag roof, cement floor.

Garage, 3224 W. Penn street, \$1,500. Geo. C. Foedisch (O), on premises. Wm. C. Wright (C), 22 Harvey street. Stone, 1 story, 22x22 feet, slate roof.

Garage, 8315 Seminole avenue, \$3,800. J. Leeds Barroll (O), 7207 Charlton street. Owen Fogarty (C), 1918 Cherry street. Stone, 2 stories, 25x28 feet, cement floor, shingle roof, metal lath plastered.

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Theatre, 1211 Market street, \$2,000. Central Market Street Co. (O), Juniper and Market streets. D. K. Boyd (C), Otis Building. Erect fireproof toilet.

Store, Third and Poplar streets, \$1,325.00. M. Rosenthal (O), on premises. Max Kane (C), 871 North Sixth street. New flush bulks.

Dwelling, 5038 Larchwood avenue, \$950. S. A. Moore (O), on premises. John P. Tallon (C), 449 South Sixtieth street. Brick, 1 story addition, 7x16 feet, slag roof.

Store and Dwelling, Girard and Fifty-second streets, \$2,700. Chas. Demetriades (O), on premises. H. Sadgian (C), Fifty-seventh and Vine streets. Brick, 1 story addition, 7x29 feet, metal, marble, slag roof, fire proofing.

Church, Eleventh and Huntingdon streets, \$2,500. Grace Reformed Church (O). Harry Gill, Jr. (C), 2515 Germantown avenue. Interior alterations.

Store and Dwelling, 110 W. Susquehanna avenue, \$550. J. Lavinisky (O), on premises. Jos. Udofsky (C), 2023 South Eighth street. New bulk front.

Store and Dwelling, 5615 Chester avenue, \$875.00. A. Sabel (O), 7034 Woodland avenue. N. Rosinsky (C), 520 Dickinson street. Brick, 1 story, 16x8 feet, additions, bulk window.

Dwelling, 433 W. Price street, \$1,500. J. Ash Pearson (O), 433 W. Penn street. W. C.

Wright (C), 22 Harvey street. Brick, 8x19 feet, shingle roof.

Store and Dwelling, 335 South Sixth street, \$400. Wagner Bros. (O), 435 South Sixth st. Wattert Charnery (C), 616 South street. Interior alterations.

Shop, Richmond and Norris streets, \$2,200. Wm. Cramp Sons Ship and Eng. Bldg. Co. (O). Hoffman Eng. Cont. Co. (C), Penn Building. Two tank supports.

Store and Dwelling, Thirteenth and York streets, \$1,500. T. J. McCabe (O), 1218 York street. E. E. Hollenback, Inc. (C), 1804 Brandywine street. Interior alterations.

Dwelling, 719 East Ontario street, \$500.00. A. Tunnicliff (O), on premises. William Stone (C), 2069 East Dauphin street. Brick, 1 story, 14x6 feet, tin roof.

Store and Dwelling, 2926 Wharton street, \$570.00. P. Martin (O), 2926 Wharton street. Louis Peter (C), 170 West Seymour street. Remodeling front.

Office and Stable, 340x42 East Somerset street, \$2,550. W. J. McKell (O), 340 East Somerset street. A. Gallagher (C), 3706 Haverford avenue. Brick, 1 story rear addition, 18x35 feet, slag roof.

Piano Show Room, 1019 Chestnut street, \$2,000. Hurlitzer Piano Co. (O), 1017 Chestnut street. Ketcham & McQuade (C), 1029 Brown street. Wood floor, plastering, metal lath, new doorway.

of carelessness on the part of the contractor or workman, or both. The contractor does not take sufficient care in the construction of the scaffold or desires to economize in cost, and the workman is not willing to take the time to assure himself that the platform or scaffold from which he is to work is secure and safe.

In order to reduce the number of fatal and serious accidents incidental to building and other forms of construction work, it will be necessary for the contractor to make sure, first, that the structures and equipment used by the mechanics are absolutely safe, and second, that the employees are trained and encouraged to think in terms of "Safety First."—New York "Real Estate Record."

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 24, 1917.—Sealed proposals will be opened in this office at 3 P. M. May 15, 1917, for the installation complete of an electric mail elevator, etc., in the United States post office and courthouse at Philadelphia, Pa., in accordance with the drawing and specification, copies of which may be had at this office in the discretion of the Supervising Architect.—James A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 3, 1917.—Sealed proposals will be opened in this office at 3 p. m., June 12, 1917, for the construction of the United States post office at State College, Pa. Drawings and specifications may be obtained from the custodian of the site at State College, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 30, 1917.—Sealed proposals will be opened in this office at 3 p. m., May 28, 1917, for changes in plumbing, gas piping, conduit and wiring and lighting fixtures, in the United States Post Office at Beaver Falls, Pa., in accordance with the specification and drawings, copies of which may be had at this office or at the office of the custodian, Beaver Falls, Pa., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

BUILDING ACCIDENTS

According to the bulletin recently published by the New York State Department of Labor, the number of preventable accidents that happen in the building trades would seem to be entirely out of proportion to the number of men employed. Compared with the number of accidents to factory employees, the building trades make a very poor showing. The total of accidents in the structural trades indicates that adequate measures should be taken at once not only to reduce the hazard, but also to educate the employees in the building trades in the principles of "Safety First." Approximately four times as many people are engaged in the factories of New York State as are employed in building and construction work, yet, during the four years from October 1, 1910, to September 30, 1914, more fatalities due to accidents occurred in construction work than in factories. In the building trades there were 1,641 accidents ending fatally, and in factories, including 204 deaths resulting from three large factory fires, there were but 1,285.

Carelessness is unquestionably one of the great factors responsible for the number of accidents in the building trades. While in many respects the contractor in charge of the operation may be blamable for permitting the hazard to exist, the accident is very often the result of a careless attitude on the part of the employee. Falls are among the most common forms of accidents in construction work. Carelessness is the prime reason for

the falls. Mechanics engaged in the erection of buildings and in other branches of construction work become so accustomed to working at great heights and in such perilous positions that they often cease to have a proper regard for the hazard entailed. The old aphorism "Familiarity breeds contempt" is quite true of the attitude of the average mechanic working on the construction of a modern building. When this attitude is encouraged by the contractors in order to make better time or for the sake of economy in some form or other, accidents are certain to follow.

Many of the fatal accidents that occur in building are due to the fact that the scaffolding upon which the mechanics and laborers are working is not properly anchored, not of sufficient strength to support the loads imposed, or built of old and partly decayed timber and lumber. Sometimes the scaffolds are without the required guard rails, contain loose boards or are in some other manner a hazard to the employee called upon to use them. Accidents which naturally follow the neglect of the contractor or his representative on the job cannot be attributed to carelessness on the part of the workman, but the workman can assist in the reduction of the number of accidents by noticing the defects in the construction of scaffolds and false work from which they are to work, and insist that their safety be provided for.

Building accidents generally are the result

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Ridpath & Potter Co.....Bourse Bldg., Phila.
John B. Rulon.....1355 Colwyn st., Phila.

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Chas. H. Robbins.....125 S. 11th st., Phila.
Warren-Knight Co.....136 N. 12th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Blue Prints.

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F. Weber & Co.....1125 Chestnut st., Phila.

Blue Print Paper.

Chas. H. Robbins.....125 S. 11th st., Phila.

Brick (Face, Etc.).

O. W. Ketcham.....Builders' Exchange, Phila

Brick Renovating.

Adolph Christensen.....1433 Brown st., Phila.

Builders.

Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.

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P. H. Fairlamb Co.....115 S. 30th st., Phila.
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Pearce Fireproof Co.....1345 Arch st., Phila.

Composition Flooring.

Philadelphia Mineral Flooring Co.,
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Dampproofing.

The Barrett Co.....New York City and Phila.

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Drawing Materials.

Charles H. Robbins.....125 S. 11th st., Phila.
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Electrical Specialties.

Large-Dail Mfg. Co.....606 Cherry st., Phila.

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Baird-Osterhout Construction Co.,
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Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
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Elevators.

A. B. See Electric Elevator Co.,
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Merchant & Evans Co.,
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Consolidated Expanded Metal Co.,
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Pearce Fireproof Co.....1345 Arch st., Phila.

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Alan Wood Iron and Steel Co.,
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Abram Cox Stove Co.,
American and Dauphin sts., Phila.

Furnaces and Ranges.

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Abram Cox Stove Co.,
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Galvanized Iron Paint.

American Chemical Paint Co.1118 S.11th st., Phila.

Garage (Portable)

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United Gas Improvement Co.,
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Granite.

Holmesburg Granite Co.,
Commercial Trust Bldg., Phila.

Heating Contractors.

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Heating Boilers.

Richardson and Boynton Co..1342 Arch st., Phila.

Insurance.

Harris J. Latta.....Penna. Bldg., Phila.

Lumber.

Howard Ketcham.....3d and Girard ave., Phila.
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Marble Mosaic.

Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.

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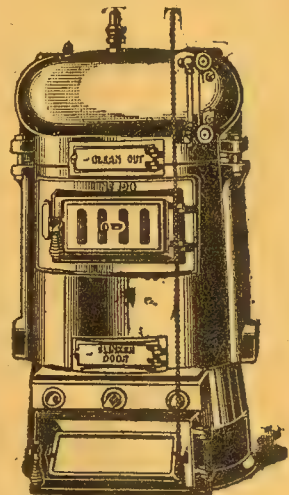
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HANDY DESIGNING DATA

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Safe live load in lbs. per square foot. Weight of slab deducted. $M = \frac{WL}{12}$

NAME OF MESH	CLEAR SPAN IN FEET															OVER ALL THICKNESS OF SLAB IN INCHES
	4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	
3-13-075	119	86	63	45	32	22										3 Inches
3-13-075	178	130	96	71	51	36	25									4 Inches
3-13-125	218	164	126	98	76	60	46	36	27							3 Inches
3-13-125	323	245	189	147	116	91	72	56	43	24						4 Inches
3-9-15	395	302	235	185	148	119	95	77	61	33	21					4 Inches
3-9-20	536	413	325	260	211	172	142	117	97	66	44	28				4 Inches
3-9-30	744	578	458	370	303	251	210	176	149	107	77	55	38	25		4 Inches
3-6-40	1049	818	652	529	436	363	305	258	220	162	121	90	67	49	34	4½ Inches
3-6-40	1797	1404	1124	915	757	634	536	457	393	295	225	173	133	102	78	6 Inches

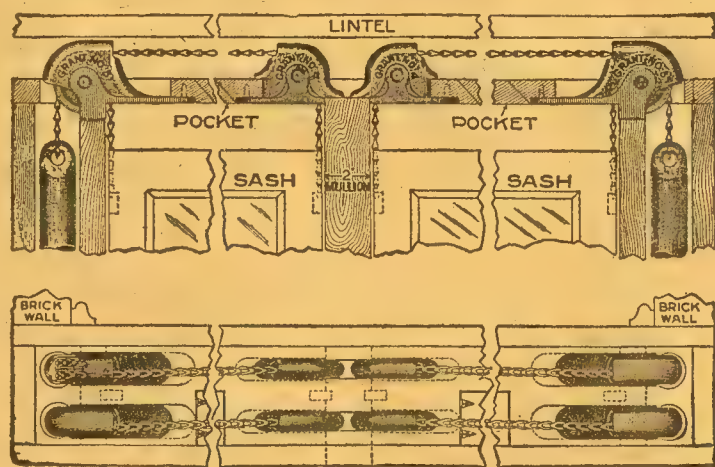
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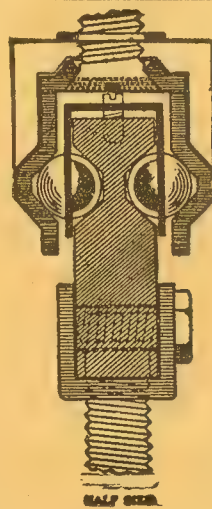
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Vol. XXXII., No. 20
May 16, 1917

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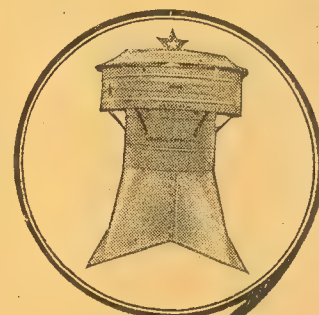
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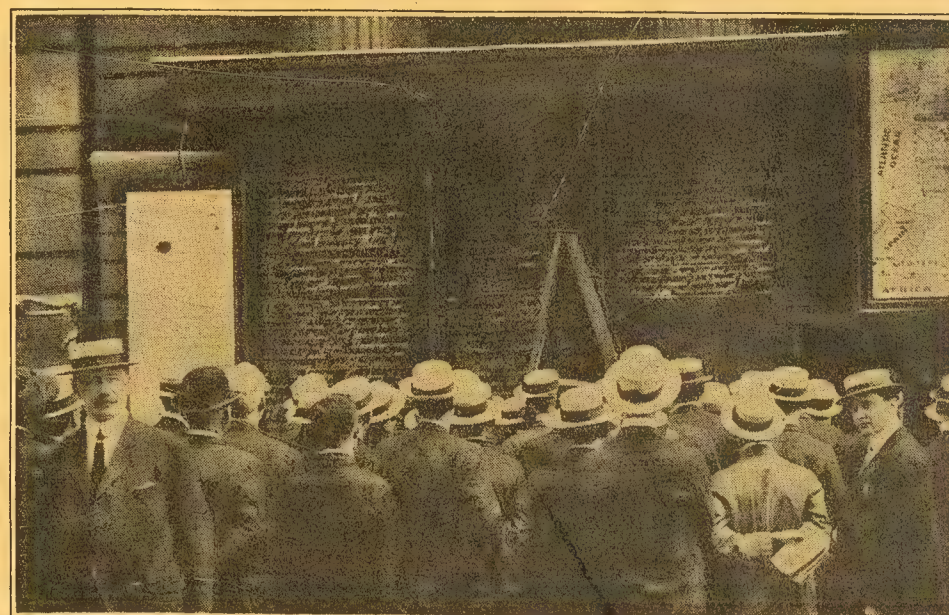
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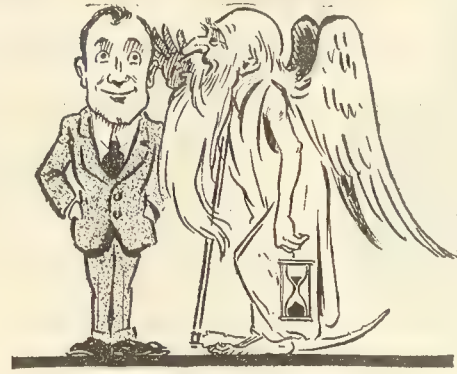
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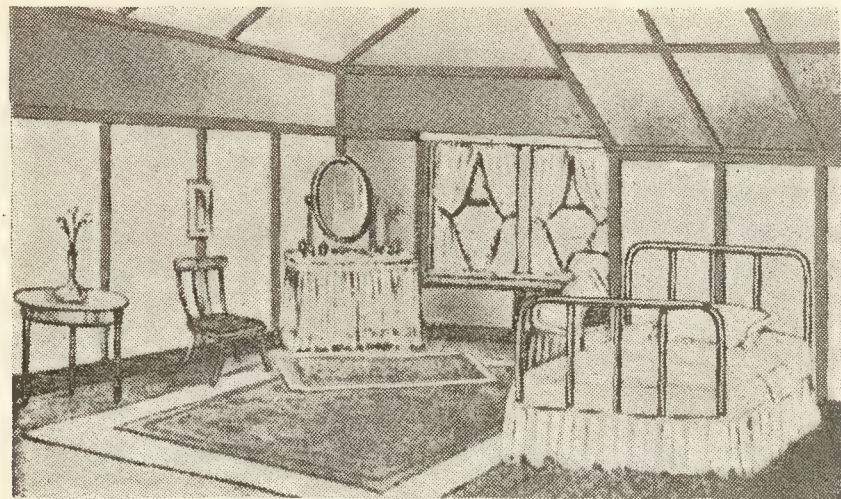
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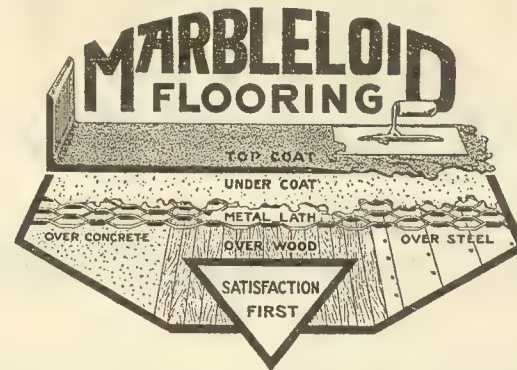
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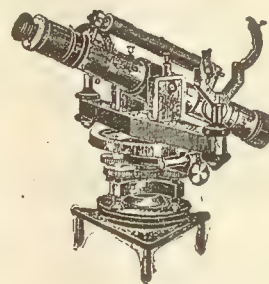


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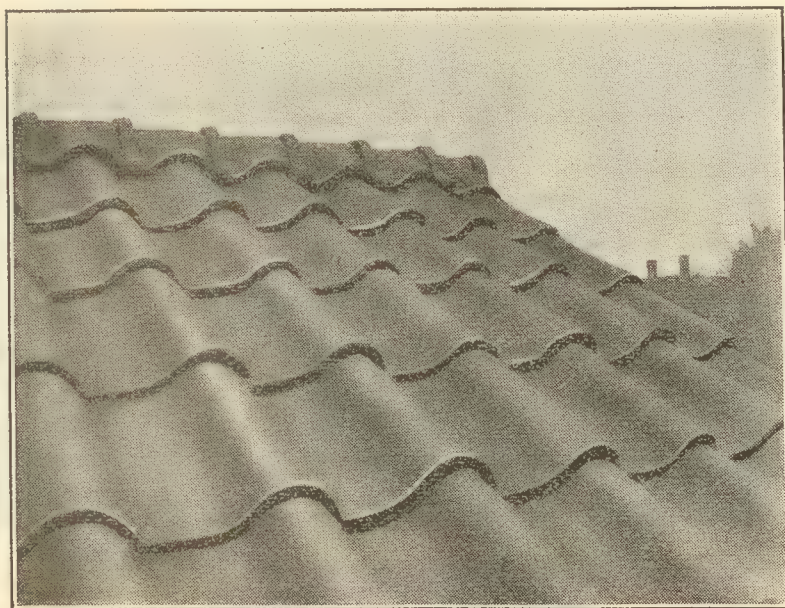
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural

VOLUME XXXII

Number 20

Engineering and the Building Trades

PHILADELPHIA

May 16, 1917



As The Editor Sees It



UNDER the caption, "The High Cost of Building," Theodore Starrett has an editorial in the April number of *Architecture and Building* that presents some interesting ideas touching conditions that, in his judgment, are responsible for the advance in building costs. "Building is a costly thing," writes Mr. Starrett. "How much of the heaped-up expense is due to architects who *insist on designing everything so that it is special and not standard*, and how much to the difficulties of building management per se I do not pretend to state. Combinations are pretty hard things to keep up in these giddy-paced times. There are too many candidates, too many mouths to feed for me to believe that combinations in the building business are much of a burden to the body politic." The inspiration for this Starrett outburst is a bulletin recently put out by an architectural society in which the higher cost of building is attributed to combinations of builders and material men—"gentlemen's agreements."

* * *

I AM reminded of a story of an architect out in San Francisco," says Starrett. "It was just after the great fire. The town was full of builders from all over the United States. They got a glad hand and a cold shoulder—if you can imagine such a combination—from all the local builders. The town was also full of architects from all over the United States. The clubs were bulging with them. Highbrows met who hadn't seen one another since the days of dear old Paris and the Ecole des Beaux Arts. I suppose there was a lot of glad-handing and cold-shouldering among them, too.

"Well, in spite of the competition of numbers there was no competition in price. It was too risky. The California

law was too strenuous for the outsiders to take any chances with, and it resulted in what our friends of the bulletin above referred to call a gentlemen's agreement. No builder would take a contract except on percentage."

* * *

THE architect, whom I propose to tell you about, was one of the local contingent; he had a number of clients and when he talked it was business that was not exactly up in the air. He wanted to induce some deep-chested general contractor to take a straight ol fashioned contract, and he sounded a number of them to see if they could not be persuaded to break the gentleman's agreement.

"Now I will pause here to impress on your mind, little builder, that there was no gentleman's areement this time. There was no combination. It was simply a case where once in their lives the builders who were gathered in the city were all impressed with the seriousness of their work and all stood fast in their resolve to let the profiteers of building, namely, the owners, take the chances."

* * *

BUT my architectural friend persisted in his efforts. One builder that he attempted to exploit was made the object of a great many attentions, entertainments, dinners and all that sort of thing.

"The builder listened to his plea.

"Now, what I want you to do," said the architect "is to take a contract for this work. Show these percentage fellows that you have some nerve."

"Then, to the suggestion from the builder that if such a thing was done it would, of course, be at a prohibitive price, the architect replied, 'No. No, Indeed. I want you to take this contract at a low price. I know how much the job is worth. You take this job at'—men-

tioning a ridiculous price such as architects of that kind are accustomed to offer. 'You take this job at that price and you will get the cream of the building work in this town.'"

* * *

THE price offered was one at which there would have been a loss of \$100,000. The builder told the architect so. It didn't phase the architect. He unblushingly avowed that it didn't make any difference if the loss was \$200,000, it would pay the builder just the same. In fact, the greater the loss, the greater the glory.

"The builder was not that kind of a person—meaning that the argument did not appeal to him. The gentleman's agreement' was not broken by him, nor as far as I ever learned, by a single one of the builders who helped during the next year or more in the work of rebuilding the city."

* * *

ONLY the other day here in Philadelphia public work of a structural order put up for bids failed to enlist a single bidder. Deliveries are so uncertain, the question of material costs so "jumpy," the labor market so badly demoralized that the men who are usually ready to take a chance on work of the kind simply declined to risk it.

One of the gambling elements in the present situation is his majesty, the sub-contractor. While everything runs soothly the sub can be depended upon. When the outlook becomes squally the sub simply ducks from under.

The outlook is that a good deal of the building to be done within the next few months will be done on a percentage basis or not done at all. I note that some of the builders are already stipulating on their business stationery that they are prepared to accept contracts on the "cost-plus-a-fixed-sum basis only

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**BLUE
PRINTS**

THE labor question is one of the most serious aspects of a badly-muddled situation. Discussing this phase *The New York Real Estate Record* remarks:

"At the present writing there is and has been for some time past a serious shortage in the supply of labor which already has exercised a depressing effect on the building trades, more particularly in the manufacture of structural commodities. The recent popularity of employment in the munition factories and other industries that have sprung up as a result of the European War is generally blamed for the scarcity of skilled labor. The situation unquestionably has reduced the ranks of skilled mechanics for construction work and with the existing shortage, the new military conditions will be felt keenly, no matter how small a percentage of the proposed draft is taken from the ranks of the building industry.

"According to the terms of the selective draft measure only those men of military age will be excused from service who are physically unfit or who are conceded to be more urgently needed in the manufacture of war munitions and supplies, the operation of public utilities and the production of foodstuffs. The latter classification is of primary importance at present as the outcome of the conflict is largely dependent upon the ability of this country to feed itself as well as the Allies. The men relieved through this channel include farmers and farm laborers, workers in packing plants and employees of other industries that are allied to the production and distribution of food.

"Under these conditions the building trades are entirely eliminated and will be called upon to furnish its full share to the army. There will likely be a greater scarcity in the labor market and a further tightening of the lines experienced by all interested in the industry. In connection with this, however, the main difficulty will not be caused by the number of mechanics required for military service, but rather because of the fact that the Federal Government has arranged such an elaborate program of construction work for training and defensive works that the labor market practically will be cleaned out for the next coming six months or a year. This condition has already made itself felt throughout the trade and is a matter that will be adjusted with difficulty."

* * *

ANOTHER thing that will have a decided tendency to effect the building business as applied to labor conditions is the large number of skilled mechanics to be requisitioned for the construction of the large merchant fleet now projected and for which work

has already been started both on the Atlantic and Pacific Seaboards. The construction of this fleet will call for the services of thousands of carpenters, iron workers, steam fitters, painters and other trades, that while having no previous experience in shipbuilding, are such a flexible type of skilled labor that it will readily adjust itself to different work. These men undoubtedly will flock to the shipyards in great numbers, not so much for the higher wages offered, but from a high sense of patriotic duty.

"The present time is altogether too early to become pessimistic as to the ultimate economic effect of the war conditions upon the labor situation, but it is the time to prepare for what is known to confront the industry and provide some means of combating a situation that has bothered the trade for a long time."

* * *

FROM the *National Builder* I am enabled to reprint here certain observations on the advantages of the percentage system over competitive bidding:

The percentage system involves taking the work on a basis of the cost-plus-percentage, which includes overhead, supervision and profit. The amount of the margin varies, but 15 per cent. is about the average at which most jobs of this kind are handled. The maximum figure which is named on the job is usually the architect's estimate; and while one possible advantage of the percentage system, from the standpoint of the builder, is that he is protected in case of unusually expensive features unexpectedly developing, the company above referred to has found that the estimate is ordinarily sufficiently liberal to enable it to be used as a maximum basis on which to figure the work.

The defects of the system of competitive bidding are obvious. The man who knows least about the cost of doing the work is often the successful bidder—for this reason. The percentage system enables the owner to discriminate and to select the concern which has earned a reputation for good work and reliability, as he is then protected from excessive costs by the arrangement described. In other words, a premium is put on good work, rather than merely on the ability to bid low.

* * *

THE average owner is willing that the contractor make a fair profit on his work; and it is also plain that if a contractor sees that he is likely to lose money on a job he will be tempted to "cut the corners" wherever he can for the sake of making his net loss as low as possible. This does not always happen, of course; for many concerns

would rather lose money on a piece of work than risk losing the good-will of the customer. Nevertheless the temptation to slight the quality, when it is found that a bid which is too low to cover the cost has been made, is present, and it is doubtless has its effect in a good many cases.

One of the chief advantages to the contractor is that suggested above. He can get the benefit of accumulated good will and the prestige which goes with a record of big jobs well handled. While it is not necessary that the architect let the contract in every case to the low bidder, the inclination is always in that direction; and thus the inexperienced and the unskilled, who know neither how to figure the cost of a job nor how to handle it to the best advantage, are likely to get work to which those who have proved themselves in previous jobs are really entitled. That is one of the glaring weaknesses of the present system. The lowest and best bidder is the man to whom the contract, in theory should be awarded; but in actual practice it is more often the low man than the best man who gets the business. Contractors have learned this, and know that only when their bid is pretty close to the bottom will they be given serious consideration.

SPACE FOR A SMILE.

TAKING CARE OF EVERYTHING.

They were a very saving old couple, and as a result they had a beautifully furnished house.

One day the old woman missed her husband.

"Joseph, where are you?" she called out.

"I'm resting in the parlor," came the reply.

"What, on the sofa?" cried the old woman, horrified.

"No, on the floor."

"Not on that grand carpet!" came in tones of anguish.

"No, I've rolled it up!"

THEIR NATURAL FINISH.

Mary: "Doesn't Ida keep her hardwood floors in beautiful condition?"

Alice: "Perfect. Everyone who goes there is carried out with a fracture or a dislocation."—"Harper's Bazaar."

NO DIVING FOR PAT.

An Irish laborer working on the roof of a building was too nervous to come down. Pausing at the top of the ladder for awhile, Pat saw the foreman watching him.

"Come down," said he to Pat.

"I'm afraid, sir," replied Pat.

"Come down the same way as you went up," addressed the foreman.

"No fear," retorted Pat. "I went up head first; I'm not coming down that way."

EDITORIAL NOTES

Announcement is made by the Board of Directors of the Master Builders' Exchange that the resignation of Charles Elmer Smith, secretary of the Exchange, offered a month ago, had been accepted with great regret. William H. Barrett, assistant secretary, has been elected secretary, to succeed Mr. Smith.



William H. Barrett.

Mr. Smith has been secretary and general superintendent of the Builders' Exchange for twelve years, and in that time has acquired a wide knowledge of the manufacturing industries allied with the building trade, having made a close study of the various products entering into modern construction, and there is said to be no one in the city better informed on these points, perhaps, than the retiring secretary of the Exchange.

Mr. Barrett, the new secretary, has been assistant secretary of the Exchange for the past nine years, and in that period has acquired a wide knowledge of building conditions in this city. He was graduated from Girard College in 1898. He is secretary of the Trades School, which was started by the Builders' Exchange more than a quarter of a century ago, and of which the City Manual Training Schools are an outgrowth, and is secretary of the Advisory Board of the Exchange, to which body the city is largely indebted for the absence of labor troubles in the building trades in the past ten years.

* * *

The Noe-Wadlow Company announces its removal to Second, Oxford and Palethorp streets, Philadelphia, where added equipment and enlarged shop and yard room have greatly increased their facilities for serving the trade. The company handles structural steel shapes, bars, metal lath, expanded metal, corner beads, etc.

* * *

The continued advance in the prices of structural materials and the difficulties experienced in obtaining deliveries in a reasonable space of time has practically stopped speculative and investment building. As a matter of fact, some of the architects that are prominently identified with work of this character have advised their clients to hold off projected construction until such time as the material prices are reduced to a figure that would make proceeding profitable. Under the existing circumstances there is no margin of profit for the investor and builder. While there is an acknowledged demand for new

buildings, both for living and commercial purposes, the present scale of rentals does not cover the cost of construction, and as these cannot well be further increased it is advisable to wait for better conditions.

* * *

Aside from the effect of the National situation upon the building trade, there probably is no greater factor blamable for the present condition than that of the intolerable freight congestion and car shortage. This has maintained far too long, and it is the consensus of opinion in the trade that a large percentage of the existing high prices of structural materials is directly traceable to the railroads. The manufacturers are willing and able to turn out sufficient quantities of materials for all needs, but they have been greatly hindered by being unable to obtain raw materials and also by being unable to make shipments of finished products. Until this condition is relieved, either by the railroads of the country making a determined effort to adjust matters by buying sufficient freight cars and providing adequate yard space or by the Government stepping in and compelling them to improve the service, the building trades are bound to suffer. The matter has now been a depressing factor for a lengthy period and it is time some measures were taken to bring the railroads to terms.

* * *

'Reducing Vibration and Noise' is the title of a small pamphlet describing the nature and application of Nonpareil cork machinery isolation. Machinery has to be installed in many locations where the rumble of its operation is a decided nuisance. That its vibration and noise can be largely overcome by properly installed cork insulations may often be of great advantage in construction work. This new pamphlet, issued by the Armstrong Cork Company, of Pittsburgh, Pa., describes the material and its application, gives tests, tables and diagrammatic instructions of the methods of installation.

* * *

The Pennsylvania Wire Glass Company have just issued a pamphlet setting forth the merits of their wire glass. There are a number of attractive illustrations presented showing skylights, railroad train sheds, factory buildings, office buildings and some views of an interesting private garage in which wire glass is used for all the glazing.

* * *

Mr. S. B. Newman has left the Master Builders' Company to enter business for himself, selling the same products as those of the Master Builders' Company. He has taken in partnership with him Mr. M. F. Cavallon, who was also connected with the New York office of the Master Builders' Company for a number of years. Their company is now known as the Newman-Cavallon Company, Inc., of 8 West Fortieth street, New York.

They handle 'N-C' concrete hardner, 'N-C' liquid hardner, 'N-C' waterproofing paste, 'N-C' waterproofing powder, wall peds and floorpeds.

* * *

The firm of Austin & Kanter, contracting electrical engineers, of 87 Fifth street, Long Island City, has been dissolved, and Mr. Austin has taken R. E. Moore into partnership. The business will be continued under the name of Austin & Moore at the same address.

* * *

Tracey & Swartwout, architects, have moved their offices from 244 Fifth avenue to 18 West Thirty-fourth street, New York City.

* * *

O. C. Gonnelli, architect, formerly of 800 Broad street, Newark, has moved his office to 189 Market street, in that city.

* * *

Isko Corporation, distributor of Isko, the electric refrigerating unit, has moved its offices and salesroom to 9 Central Park West, New York.

* * *

Charles S. Vought has been appointed assistant general manager of sales of the American Steel Export Company, Woolworth Building, New York.

* * *

H. A. Howard has been appointed manager of the New England office of the C. & C. Electric Manufacturing Company, Garwood, N. J.

* * *

L. E. Tucker, engineer, has moved from 141 Broadway to 29 Broadway, New York.

* * *

Arne Delhi, architect, formerly at 257

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PERRY BUILDING, PHILADELPHIA

Louis S. DeLone.....President
H. A. Lang.....Vice-President
Joseph M. DeLone.....Secretary and Treasurer

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Second Class Matter

Irving Dillon.....Editor

Broadway, has moved to 154 Nassau street, New York.

* * *

Trowbridge & Ackerman, architects, have moved from 62 West Forty-fifth street to 18 West Forty-fifth street, New York.

* * *

George C. Lynch Company, lighting equipment, announces the retirement of Kellogg Birdseye as treasurer and general manager and C. W. Anderson, Jr., as secretary. The Board of Directors has been reorganized and the following officers and directors elected: George C. Lynch, president; Francis G. Plant, vice-president; C. H. Warfield, secretary and treasurer, and F. P. Warfield and F. S. Viele, directors. Mr. Lynch, who will act as sales manager, is well known in the high-grade lamp and decorative lighting field. Although several of the members of the company are actively associated with the National Metalizing Company, both concerns will maintain their separate identities. The George C. Lynch Company has taken possession of its new offices at 236 Fifth avenue, New York.

* * *

American Society for Testing Materials will hold its twentieth annual meeting at Atlantic City, at the Hotel Traymore, June 26 to 30, inclusive.

A. D. Mellor and A. Hamburger, formerly manager contract department and chief engineer, respectively, for the National Fireproofing Company, New York City, have resigned their positions to open an office at 103 Park avenue, under the name of Mellor & Hamburger, to market the sheet metal building materials of The Berger Manufacturing Company, requiring engineering services. Both are well known in the concrete and reinforcing business in the East.

* * *

National Housing Association will hold its annual meeting at Chicago October 15-17, 1917. Headquarters, Hotel La Salle. For information inquire of Lawrence Veiller, secretary, 105 East Twentysecond street, New York City.

* * *

National Metalizing Company has moved its offices from 333 Fourth avenue to new and larger quarters at 236 Fifth avenue, New York City. The company is at present engaged on several large jobs, including installation of lighting fixtures in the splendid new Hotel Winton, at Cleveland, Ohio. The company has just completed similar work on the new Bonbright Bank, on the main floor of the Equitable Building.

BUILDERS OPPOSE WORK LIMITATION

Protests Sent to Legislature Against Measure
Requiring Architects for All Structures

Action in opposition to the passage of several bills regarded as adverse to the interests of the building trades was taken by the Committee on Legislation of the Master Builders' Exchange, and protests, signed by President Tyson, against the passage of Senate bill 44 and House bills 238, 484 and 740 were forwarded to the various committee chairmen having charge of the bills. The committee approved House bill 1639 and urged its passage.

The first of the proposed Acts objected to is framed to regulate the practice of architecture. The features most objectionable to the builders are requirements for the annual examination and licensing of all architects, requiring that an architect must be more than twenty-five years old, and must have served seven years as a draftsman in the office of a recognized architect or architects, and providing for a fine of \$50 to \$100 for the first violation, and of \$200 to \$500 and imprisonment for a year for each subsequent infraction of the Act.

Would Require Architects.

This Act, it is contended, would prohibit erection of structures by builders from their own plans and would oblige everyone intending to build to employ an architect.

Bill 238 provides for the regulation of advertisement for employees during strikes, lock-outs of other labor trouble; 484 regulates

hours of labor of power plant employees, while 750, it is contended, will prohibit the issue of injunctions by the Courts restraining labor organizations.

Advertisement Necessary.

The bill approved requires that no contract may be awarded by a Board of Education anywhere in this State for any work on public schools amounting to \$300 or upward without due advertisement, and that all such contracts must be let to the lowest responsible bidder. This is the procedure now in Philadelphia, but it is said that the contrary condition prevails in Pittsburgh and elsewhere, many contracts being let without any advertisement or competition whatever to favored builders.

The committee has under consideration an ordinance introduced into Councils recently regarding the maintenance of structures upon or above the sidewalks, such as electric signs, show cases, etc. Action will be taken upon this later.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

CONVERSION OF BUILDINGS.

A decision of general interest, with respect to the conversion of existing buildings to uses for which they were not originally planned or adapted, is contained in a resolution recently adopted by the New York City Board of Appeals.

Alexander C. MacNulty, attorney, on behalf of Dr. Peter Ruccione, lessee, filed with the Board an appeal from a decision of the Superintendent of Buildings, who had denied a certificate of occupancy for a non-fireproof building converted from a private dwelling into a sanatorium, at premises 230 East Fifteenth street, Manhattan. It is proposed to convert this dwelling, which is four stories high, into a building to be used in part as a private sanatorium for the accommodation of not more than twelve patients and in part as a dwelling, without making any structural changes therein.

The Board of Appeals sustained the Superintendent in his decision, denying a certificate of occupancy, in this matter. It takes the view already expressed by the Corporation Counsel in another matter, that "it is the evident intention of the Building Code to prohibit the conversion of existing buildings to uses for which they were not originally planned or constructed unless they conform in construction and safety requirements to the provisions of law applying to buildings hereafter erected for such uses."

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We may live without conscience and live without heart;
We may live without friends, we may live without fads;
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, Germantown, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner's name withheld. Brick and terra cotta (joist construction), 3 stories, 100x175 feet. Preliminary plans in progress.

Residences (21), Thirteenth and Shunk sts., Philadelphia. Architect, private plans. Owners, Raymond & Kilpatrick, 1523 Snyder avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, pine floors, electric lighting. Work about to be started.

House of Correction Wharf (repairs), Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, George S. Webster, Director, 552 Bourse Building, Philadelphia. Owners ready for bids, due May 21st at 12.30.

Storehouse, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 7 stories, 304x104 feet and 120x104 feet, slag roof (heating, lighting, plumbing and ventilating reserved), pine and concrete floors, hollow tile, metal lath, elevators, rolled steel sash, hollow metal skylights, fire doors, hollow metal doors, waterproofing and dampproofing, wire work, ornamental iron work. Owners taking bids, due May 21st. Cramp & Co., Denckla Building, and Warren-Moore Co., Commercial Trust Building; Irwin & Leighton, 126 North Twelfth street, and F. W. Mark Const. Co., Finance Building, Philadelphia, are figuring.

Club House, Second and Jefferson streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Michael's Literary Society, on premises. Brick and stone, 2 stories, 42x44 feet, pine and cement floors, slag roof, metal lath, waterproofing (heating, plumbing and lighting reserved). Architect taking bids, due May 18th. Melody & Keating, 1322 Race street; John McShain, 1610 North street; Wm. R. Dougherty, 1610 Sansom street; D. W. O'Dea, 5219 North Fifth street, and John Dillon, 1848 North Front street, Philadelphia, are figuring.

Garage, northwest corner Seventh and Spring Garden streets, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Very Best Garage Co., care of M. Berger & Co., northeast corner of Seventh and Green streets, Philadelphia. Reinforced concrete and brick, 4 stories, 78x88x115 feet, slag roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and parquet floors, metal lath, 2 elevators, waterproofing. Owners taking bids, due May 18th. Warren-Moore & Co., Commercial Trust Building, Philadelphia, are figuring.

Residence (alt. and add.), 1341 Ellsworth street, Philadelphia. Architect, Frank V. Nickels, Real Estate Trust Building, Philadelphia. Owner's name withheld. Brick, 1 story

addition, 10x14 feet (slag roof, plumbing, electric work, heating and tile work reserved), cement and oak floors. Architect has received bids.

Garage, Evergreen and Stenton avenues, Chestnut Hill, Pa. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owner, Franklin D. Wieand, Jr., on premises. Stone, 1½ stories, 30x30 feet, slate roof, steam heating, electric lighting, cement floors. Architects taking bids, due May 17th. Specht & Sperry, Heed Building; Eugene Tourison, 1001 Chestnut street; Fred Elvidge & Son, 5522 Germantown avenue; Wm. H. Carr, 5911 Germantown avenue, and Wm. H. Megargee, 124 East Gorgas Lane, are figuring.

Garage, Sixty-second and Cedar avenue, Philadelphia, \$8,000. Architect, private plans. Owner, Armenag Mahjoubian, 642 South Sixtieth street, Philadelphia. Brick, 2 stories, 40x94 feet, slag roof, hot water heating, cement floors, electric lighting, gasoline storage system. Owner will sub-let.

Bank Building (alt. and add.), Main and Levering streets, Manayunk, \$50,000. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Manayunk National Bank, on premises. Granite (fireproof construction), 2 stories addition, 20x68 feet, slag roof, steam heating, electric lighting, tile and marble work, bank fixtures, metal lath (vault reserved). Architects taking bids, due May 25th at noon. E. L. Cuthbertson & Son, 334 Roxborough avenue; Wm. H. Eddleman & Sons, 453 Green Lane, Roxborough, Pa., and Hughes Foulkrod Co., Commonwealth Building, are figuring.

Locker House, Stenton avenue, above Vernon street, Germantown. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owners, Stenton Country Club, on premises. Stone, 2 stories, 27x53 feet, wing 14x18 feet, shingle roof, hot water heating, electric lighting, tile and marble work, cement floors, waterproofing and dampproofing. Architects taking bids, due May 22nd. W. John Stevens, Inc., Wynecote, Pa.; Eugene Tourison, 1001 Chestnut street; Specht & Sperry, Heed Building, and R. W. Neff, 6610 Germantown avenue, are figuring.

Factory, Hunting Park avenue and Henry street, Philadelphia. Architects, Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia. Owners, Nice Ball Bearing Co., 504 Land Title Building, Philadelphia. Reinforced concrete, 1 story, 50,000 square feet, steam heating, slag roof. Plans in progress.

Church and Sunday School, Second and Clearfield streets, \$80,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Puritan Presbyterian Church, Rev. James G. Raymond, 2857 North Eighth street, Philadelphia. Stone and brick, 1 story and basement. Plans in progress.

Studio and Residence (alt. and add.), 1518

Waverly street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, M. W. Zimmerman, 1522 Locust street, Philadelphia. Brick, 3 stories rear addition. Plans in progress. Architects ready for bids in two weeks.

Offices and Apartment House, 314 South Broad street, Philadelphia. Architect, H. D. Prettyman, 2603 South Broad street, Philadelphia. Owner, C. B. Prettyman, 609 Real Estate Trust Building, Philadelphia. Brick and stone, 4 stories, 22 feet and 18x136 feet, slag roof, hot water or steam heating, electric lighting, tile and marble work, hollow metal sash, fire doors, oak and cement floors, metal lath, 1 elevator, roof ventilators. Plans completed. Owner taking sub-bids.

Factory Building and Power House, Memphis and Tioga streets. Architect, W. E. S. Dyer, Land Title Building. Owners, Treen Box Co., on premises. Brick (slow burning), factory, 2 stories and basement, 60x100 feet; power house, 1 story, 30x60 feet, slag roof, steam heating, electric lighting, metal lath, cement and plank floors. Revised plans in progress. Architect will be ready for bids in three weeks.

Store and Dwelling, Eighty-fourth and Earley avenue, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, J. Caplan, care of architect. Brick, 1 story, 16x50 feet, slag roof, electric lighting. Architect will take bids in a few days.

Stores and Dwellings (2), 941-43 South Ninth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, G. Di Negro, on premises. Brick and stone, 3 stories, 15x30 feet, slag roof, hot air heating, electric lighting, metal ceiling, galvanized iron skylights. Plans about completed. Architect will take bids in one week.

Building (alts.), 5146 Market street, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owners, Brooks Bros., 5138 Market street, Philadelphia. Brick, 3 stories, consists of alterations to interior, new front, metal bulks, marble and tile work. Architect will take bids in a few days.

Recreation Buildings, League Island Park, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works, care of George E. Datesman, Director, City Hall. Bandstand, comfort building, 48x17 feet; boathouse and pavilion, 185x49 feet; overlook, 55 feet diameter, 1 story, brick, stone and reinforced concrete (plumbing, heating, electric work separate bids), shingle and tile roofs, cement floors, tile and marble work, hollow tile, metal lath, ornamental iron work. Lowest bid submitted by Edwin H. Vare, Lincoln Building, Philadelphia, \$183,000. (Only bidder.)

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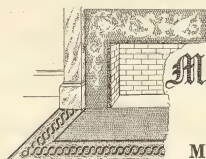


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Warehouse (add.), Thirty-seventh and Reed streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Philadelphia Rubber Co., on premises. Brick, 1 story, 124x31 feet and 59x31 feet, slag roof, cement floors, rolled steel sash (heating, electric work reserved by owners). Architects will sub-let.

Hospital and Refectory Buildings (4) and Power Plant, Byberry, Phila. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Bureau of Health and Charities, Dr. Wilmer Krusen, Director, City Hall, Philadelphia. Brick, stone, terra cotta and tile, 2½ stories, 222x45 feet; 1 story, 90x64 feet (plumbing, heating and electric work separate bids), slate and slag roof, cement and pine floors, marble and terrazzo work, metal lath, hollow metal skylights, safety treads, metal window guards, iron stairs, ornamental iron work, dampproofing, wire work. Owners taking new bids, due May 25th at noon. Chas. McCaul Co., 1713 Sansom street; H. E. Baton, Twelfth and Sansom sts.; Mitchell Bros., 2125 Race street; Irwin & Leighton, 126 North Twelfth street; Geo. A. Fuller Co., Widener Building; Bailey-Lush Co., 201 North Broad street; F. W. Mark Const. Co., Finance Building, Philadelphia; Connors Bros. Co., 64 West Eighty-eighth st., New York City, and John Gill & Sons, Citizens' Building, Cleveland, Ohio, are figuring.

Residence (alt. and add.), Broad street, below Oak Lane avenue. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Reuben Windisch, Old York Road, Oak Lane, Philadelphia. Stone, 2½ stories, consists of repairs after removal of house to new location, slate roof, hardwood floors, electric lighting. Architects taking bids, due May 18th. Specht & Sperry, Heed Building; Edw. B. McCall, Sixty-fifth and Park avenues, and John H. Dagney, York Road and Sixty-ninth avenue, Oak Lane, are figuring.

Sunday School, Eighth and Luzerne streets, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owners, the Evangelical Lutheran Church of St. Simon, Rev. Karl L. Reinsner, 4064 North Twelfth street, Philadelphia. Stone and brick, 2 stories, 64x62 feet, slag and slate roof (heating, lighting and plumbing reserved), mineral composition and pine floors, tile work, metal lath, ornamental iron work. Architect taking bids, due May 24th. E. J. Kreitzburg, 1345 Arch street; Henry P. Schneider, 3717 Old York Road; Pringle Barthwick, 8018 Germantown avenue; E. E. Hollenback, Inc., 1804 Brandywine street; A. R. Raff Const. Co., 1635 Thompson street, and P. Haibach Const. Co., Twenty-sixth and Thompson streets, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Country House, 416 Moreland avenue, Chestnut Hill, Pa., \$50,000. Architect, Walter H. Thomas, 130 South Fifteenth street, Philadelphia. Owner, Mrs. Nathan A. Taylor, West Mermaid Lane, Chestnut Hill. Stone, 2 stories, 140x25 feet, slate roof, hot water heating, hardwood floors, electric lighting, tile work. Contract awarded to Thos. Little & Sons, 1713 Moravian street.

Office and Shop (add.) and Bicycle Shop, Ninth and Dudley streets, \$26,000. Architect, private plans. Owners, U. G. I. Co., Broad and Arch streets, Philadelphia. Reinforced concrete, brick, stone and steel, 3 stories addition, 46x32 feet, 1 story, 40x46 feet, slag roof, concrete and maple floors (heating and lighting reserved), hollow metal sash, roof ventilators, metal window guards, ornamental iron work. Contract awarded to Frank G. Stewart, 1619 Sansom street.

Store (alt.), Arch street, near Eighth street, Philadelphia, \$800. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Dannenbaum Building, on premises. Consists of new bulk and entrance doors (oak). Contract awarded to Harry R. Rust, 714 Ludlow street, Philadelphia.

Church, northwest corner of Fifty-ninth and Larchwood avenue, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owner, Fourth Reformed Presby-

terian Church, Broad and Wharton streets, John A. Wilson, 5703 Spruce street, secretary, Board of Trustees. Stone, brick and terra cotta, 1 story and gallery, 70x67 feet, asphalt roof, pine floors, metal lath, steam heating, electric lighting, tile work, wire work. Contract awarded to George Bond, Sixty-sixth avenue and Thirteenth street, Oak Lane.

Club House, 1809-17 Ransstead street, Philadelphia, \$35,000. Architects, Price & McLaughan, Bellevue Court Building, Philadelphia. Owners, Musical Art Club, care of L. Stauffer Oliver, chairman Building Committee, 102 S. Seventeenth street, Philadelphia. Brick, steel and terra cotta, 2 stories, 50x62 feet, slag or composition roof (steam heating, electric work and plumbing reserved), hardwood and terrazzo floors, tile and marble work, metal lath. Contract awarded to H. E. Grau Co., 1707 Sansom street.

Commission House (alt. and add.), 314 South Front street, \$7,000. Architect, private plans. Owner, E. P. Stern, 308 South Front street, Philadelphia. Brick, 2 stories, 15x52 feet, slag roof, hot water heating, electric lighting, cement and pine floors, metal lath, 1 elevator. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Singal Tower and Offices, Chestnut Hill, Philadelphia, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia.

Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, 2 stories, 20x81 feet, slag roof, steam heating, electric lighting, metal lath. Contract awarded to Pringle Borthwick, 8018 Germantown avenue, Philadelphia.

Wagon Shop, 407 North Randolph street, Philadelphia, \$5,200. Architect, private plans. Owner, Frank Schanz, 408 North Randolph street, Philadelphia. Brick, 1 story, 46x63 feet, slag roof, plank floors. Contract awarded to Herman Voigt, 1251 North Twenty-eighth street, Philadelphia.

Residence (alt. and add.), 1912 Pine street, Philadelphia, \$3,500. Architect, private plans. Owner, Benj. J. Taylor, 1729 Spruce street, Philadelphia. Brick, 3 stories, 1 story addition, 10x8 feet, tin roof, tile work, metal lath. Contract awarded to Wm. N. Thompson, 1529 Filbert street, Philadelphia.

Factory, Power House and Storage Sheds, Stanley street, above Westmoreland street, \$65,000. Architect, private plans. Owners, Philadelphia Drying Machinery Co., 6721 Germantown avenue. Brick (mill construction), 1 story, 128x110 feet, 35x40 feet and 22x110 feet, slag (sawtooth) roof, cement and maple and pine floors, steam heating, electric lighting, rolled steel sash, metal lath. Contract awarded to Deuell Co., Stock Exchange Building, Philadelphia.

Maternity and Dispensary Building, 1234 North Fifty-fourth street, \$41,000. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, West Philadelphia General Homeopathic Hospital, on premises. Brick, terra cotta and concrete, 2 stories and basement, 36x85 feet, and wing 36x13 feet (lighting and heating reserved), slag roof, cement floors, tile and terrazzo work, hollow metal skylights, fire doors, ornamental iron work, hollow tile, metal lath, safety stairs, dampproofing, wire work, ornamental iron work. Contract awarded to Wm. Linker Co., 821 Cherry street, Philadelphia.

Store Building (alt.), 1806 Market street, \$5,000. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Dwight F. Fuller Estate, 10 South Eighteenth street, Philadelphia. Alterations to first floor, steam heating, electric lighting, tile, marble and terrazzo work, metal lath, store fixtures, metal bulks. Contract awarded to Hogg Const. Co., 1634 Sansom street, Philadelphia.

PENNSYLVANIA Construction News

Sewage Disposal Plant, Villa Nova, Pa. Engineers, Harrison Mertz & Emlen, Inc., Commercial Trust Building. Owner, C. Hetley Dulles, Villa Nova, Pa. Concrete work, tiling, terra cotta pipe, crushed slag. Engineers ready for sub-bids.

Sewage Disposal Plant, Ardmore, Pa. Engineers, Harrison Mertz & Emlen, Inc., Commercial Trust Building. Owner, Atwater Kent, Ardmore, Pa. Concrete work, tiling, terra cotta pipe and crushed slag. Engineers ready for sub-bids.

Railroad Bed, Norristown Junction to Abrams, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Consists of 25,000 cubic yards of excavation, 70 cubic yards of concrete work, masonry and grading. Owners taking bids, due May 19th. A. L. Carhart, Hale Building, is figuring.

Store and Apartments, Berwick, Pa., \$25,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owner's name withheld. Brick, 2 stories, 60x180 feet,

composition roof, steam heating, electric lighting, metal lath (store fixtures reserved). Plans completed. Architect will take bids in a few days.

School (add.) (4 rooms), Trucksville, Pa. Architect, Frank Sahn, Second National Bank Building, Wilkes-Barre, Pa. Owners, School Board of Trucksville, Trucksville, Pa. Frame, 2 stories (heating, direct and indirect, ventilating, electric lighting and plumbing reserved), yellow pine floors. Owners have received bids.

Macaroni Factory (alt. and add.), Hazleton, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, J. Amerise, Hazleton, Pa. Brick, 3 stories, 60x70 feet, slag roof, yellow pine and maple floors, metal lath, high pressure boilers, fire escapes. Plans in progress.

Factory Building, Wilkes-Barre, Pa., \$10,000. Architect, Frank Sahn, Second National Bank Building, Wilkes-Barre, Pa. Owners, Sanitary Cleaning and Dyeing Co., Wilkes-Barre, Pa. Brick and concrete, 2 stories, 45x45 feet, slag roof, steam heating, electric light-

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Residence (alt. and add.) and Garage, 4800 Chester avenue. Architects, Mills and Van Kirk, 614 Harrison Building, Philadelphia. Owner, J. J. Turney, 308 Walnut street, Philadelphia. Stone, 1 story addition, 19x18 feet; garage, 2 stories, 27x21 feet, slag and slate roof, steam heating, electric lighting, tile and marble work, cement and pine floors, ornamental iron work. Contract awarded to Geo. P. Clayton, 1841 Ginnodo street, Philadelphia.

Office Building (alt.), 316 Walnut street, Philadelphia, \$1,100. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owners, the Friends' Almshouse Est., 207 Walnut street, Philadelphia. Consists of new entrance and interior alterations, plastering, mill work, electric lighting, marble and terrazzo work. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

ing (plumbing reserved), concrete floors, rolled steel sash, fire doors, iron stairs. Plans in progress.

Factory Building (add.), North Penn avenue, Wilkes-Barre, Pa., \$10,000. Architect, George Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Pressed Steel Co., Wilkes-Barre, Pa. Concrete, 1 story, 57x80 feet, slag roof, steam heating, concrete floors, rolled steel sash. Plans in progress.

Store Front, South Main street, Wilkes-Barre, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Mr. Davidson, South Main street, Wilkes-Barre, Pa. Consists of pressed brick, plate glass, 3 stories, tile work. Plans in progress.

School House (add.), Athens, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Athens School Board, Athens, Pa. Reinforced concrete and brick, 2 stories, 125x70 feet, slag roof (heating and lighting extension, ventilating, plumbing, wiring, fixtures and vault door reserved), concrete and wood floors, tile work, hollow tile, metal lath. Plans completed. Owners ready for bids.

Factory Building, Jackson and North Penn avenue, Wilkes-Barre, Pa., \$12,000. Architect, Henry P. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Penn Manufacturing Co., Wilkes-Barre, Pa. Brick (slow burning construction), 2 stories, 37x11 feet, slag roof, steam heating, electric lighting, 1 elevator. Owner taking bids, due as soon as possible. O. J. Behrens & Son, Wilson J. Smith, Eckenrode Bros., and John A. Smith, all of Wilkes-Barre, Pa., and C. W. Davis, Kingston, Pa., are figuring.

School, Richmond Hill, Scranton, Pa. Architect, Fred A. Nelson, Connell Building, Scranton, Pa. Owners, School Board, Scranton, Pa. Brick, 3 stories, 120x160 feet, slag roof (heating reserved), maple floors, electric lighting. Owners taking bids. Plumbo & Kroft, Peter Stipp, E. S. Williams, S. Sykes & Sons, Louis Stipp, Man & H. Behlke, and Beilman & Son, all of Scranton, Pa., are figuring on mason work, and Washburn & Williams, Boland Bros., NAW Aug Lumber Co., David N. Watson, Peek Lumber Co., and Spruks Bros., all of Scranton, Pa., are figuring on carpenter work.

Home Building, Power House and Tunnel, Lansdowne avenue and Garrettsford Road, Lansdowne, Pa. Architect, Paul Monaghan,

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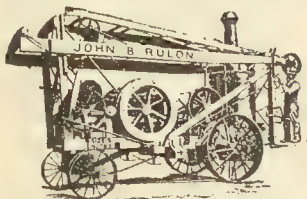
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Drexel Building, Philadelphia. Owners, New St. Vincent Home, care of Rev. Archbishop E. F. Prendergast, Eighteenth and Race streets, Philadelphia. Brick, stone, steel, reinforced concrete, hollow tile and terra cotta, 3½ stories and basement, 349x78 feet and 205x239 feet; power house, 2 stories, 73x80 feet, slate, tile, slag and copper roof, cement, asphalt, composition, maple and pine floors, steam heat, electric light, tile, marble, terrazzo work, rolled steel sash, copper skylights, fire doors, iron stairs, enameled brick, metal lath, 2 elevators, waterproofing, ornamental iron work. Architect taking bids, due May 25th at 4 P. M. Wm. R. Dougherty, 1610 Sansom street; H. E. Baton, Twelfth and Sansom streets; Cramp & Co., Denekla Building; Melody & Keating, 1322 Race street; John McShain, 1610 North street; Doyle & Co., 1509 Sansom street; A. R. Raff Const. Co., 1635 Thompson street, and George A. Fuller Co., Widener Building, all of Philadelphia, are figuring.

Power House, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maccar Truck Co., Scranton, Pa. Brick, steel and reinforced concrete, 1 story. Work contemplated.

Bank (alt. and add.), Wyoming avenue, Scranton, Pa., \$70,000. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owners, Third National Bank, Scranton, Pa. Limestone, brick and hollow tile, 1 and 3 stories, 67x80 feet, Barrett roof (plumbing and bank fixtures reserved), city steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash, bank fixtures, metal bulks, ornamental iron work, marble floors, hollow tile, metal lath, metal window guards. Plans in progress.

Bridge, between Crown and Harrison avenue, Scranton, Pa., \$90,000. Engineer, W. A. Shunk, City Engineer. Owners, South to East Scranton Bridge Association, Scranton, Pa. Reinforced concrete and steel, 452 feet long, 35 feet wide, waterproofing. Plans completed. Alex. I. Prawdzik, secretary, Scranton, Pa.

Insane Ward, Blakeley, near Scranton, Pa. Architect, E. H. Davis, Union Bank Building, Scranton, Pa. Owners, Blakely Poor District, Scranton, Pa. Brick, 2 stories and basement, 80x80 feet, slate roof, steam heating, electric lighting, concrete floors. Plans in progress.

Factory Building, Scranton, Pa., \$90,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maccar Truck Co., Scranton, Pa. Brick, reinforced concrete, steel, 1 story, 70x300 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, reinforced concrete floors, waterproofing. Owners taking sub-bids.

Schools (2), and Boiler House, Old Forge, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, School Board of Old Forge, Old Forge, Pa. Wood, reinforced concrete and brick, 1 story, 4 rooms each, slate and slag roof, steam heating. Plans in progress.

Silk Mill, Scranton, Pa. Architect, J. H.

Davey, Coal Exchange Building, Scranton, Pa. Owner, George W. Frisbie, Scranton, Pa. Brick and concrete, 2 stories and basement, 62x112 feet, slag roof, steam heating, electric lighting, elevators. Plans in progress.

Store and Apartments, North Washington street, Wilkes-Barre, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre. Owner, James Gabrio, North Washington street, Wilkes-Barre, Pa. Brick, 3 stories, 22x70 feet, slag roof, steam heating, combination lighting, tile and marble work, yellow pine floors, metal lath, dampproofing. Plans in progress.

Barn, Media, Pa. Architect, Frederick Webber, Morris Building, Philadelphia. Owner, Samuel J. Henderson, Morris Building, Philadelphia. Stone, 1 and 2 stories, 70x34 feet, 13x17 feet and 42x17 feet, slate and slag roof (stone work and electric fixtures reserved), cement and pine floors, electric lighting, roof ventilators. Architect taking bids, due in one week. James B. Flounders, 1329 Arch street; Sweager Seasholtz Co., Parkway Building, Philadelphia, and Clare Baker, Lima, Pa., and J. W. Werrilow, Media, Pa., are figuring.

Post Office, Media, Pa. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Stone, brick, concrete and steel, 2 stories, 70x55 feet, composition roof, maple floors, tile and terrazzo work, metal lath, hollow metal sash, ornamental iron work, roof ventilators, metal window guards and weather strips, dampproofing, wire work. Lowest bidder, W. H. Fissell & Co., Marbridge Building, New York City, \$47,000.

Residences (150), Allentown, Pa. Architect, private plans. Owner, H. A. Butterweck, Allentown, Pa. Frame, hollow tile and stucco, 2 and 2½ stories (singles and doubles), slate, shingle and composition roof, yellow pine and maple floors, hot water heating, electric lighting. Work contemplated.

Hotel (alt. and add.), South Bethlehem, Pa. Architect, J. B. Wilt, South Bethlehem, Pa. Owner, J. T. Hart, South Bethlehem, Pa. Brick, third story addition, 37x50 feet and 16x22 feet, Carey roof, wood floors, heating and lighting extensions, tile work. Plans completed. Owner ready for bids.

Hotel, Broadway and Fourth street, Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner's name withheld. Brick, 6 stories, 50x100 feet. Details not decided. Plans about to be started.

Restaurant and Apartment Building, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner's name withheld. Brick, 3 stories, 20x80 feet, slag roof, hot water heating, electric lighting, tile work, yellow pine floors. Plans in progress.

Apartment House (alt.), South Bethlehem, Pa., \$3,000. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Marcus & Goodman, South Bethlehem, Pa. Brick, 3 stories, general interior and exterior alterations. Plans in progress.

Residence, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner,

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BOTH PHONES

Charles Finady, South Bethlehem, Pa. Brick, 2½ stories, slag roof, hot water heating, yellow pine floors. Plans in progress. Owner will build.

Bungalow, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, M. K. Hoffman, South Bethlehem, Pa. Stucco, 1½ stories, 24x36 feet, slate roof, yellow pine floors. Plans in progress.

Double Houses (6), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, M. K. Hoffman, South Bethlehem, Pa. Brick, 2 stories, 30x38 feet, slate roof, yellow pine floors, hot water heating, electric lighting. Plans in progress.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, Charles H. Groman, South Bethlehem, Pa. Stone, 2½ stories, 35x42 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors, hollow tile. Plans in progress.

Residence and Garage, Ogontz, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Mrs. Herbert K. Taylor, Ogontz, Pa. Stone, 2½ stories, 50x56 feet, and 1 story, 25x30 feet, shingle roof warm air heating separate bids), electric lighting, tile work, hardwood and cement floors. Architects taking bids, due May 19th at 4 P. M. The following are figuring: W. John Stevens, Inc., Wynecote, Pa.; Wm. H. Eddleman & Sons, 433 Green Lane, Roxboro, Pa.; C. L. Hemmerly, Melrose, Pa.; Alan G. Smith, 2135 North Sixty-third street; F. B. Davis, 240 North Sixteenth street, and Samuel Harting, 20 East Johnson street.

Bridge, Reading, Pa., \$65,000. Engineers, Wm. H. Dechart & Son, Baer Building, Reading, Pa. Owners, Carpenter Steel Works, Reading, Pa. Reinforced concrete, 325x25 feet, waterproofing. Plans in progress.

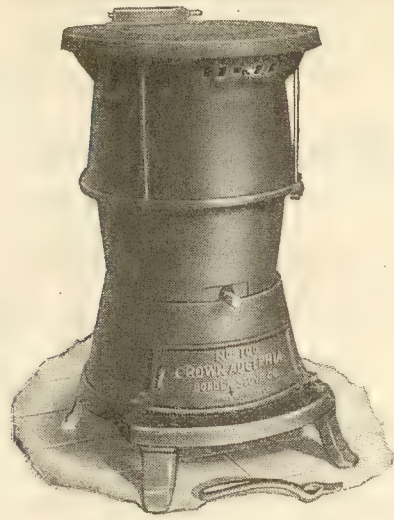
Factory (add.), Fleetwood, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Fleetwood Metal Body Co., Fleetwood, Pa. Brick, 3 stories, 123x60 feet, concrete and wood floors, electric lighting, heating undecided, elevators. Owners taking sub-bids.

Residence, Moreland Road, Willow Grove, Pa. Architect, Harry Parker, Philadelphia. Owner, P. P. Gheen, Moreland Road, Willow Grove, Pa. Consists of interior alterations, new fireplaces, tile work, painting, oak floors. Plans in progress. Architect will be ready for bids in about two weeks.

Bungalow (alt. and add.), Whitford, Pa. Architect, Andrew Charles Borzner, 721 Walnut street, Philadelphia. Owner, Andrew Charles Borzner, 721 Walnut street, Philadelphia. Consists of addition, 1 story, 10x13 feet, flexible roof and exterior alterations (new porches), electric lighting. Architect will sub-let and superintend work.

Hotel (alt. and add.), East Fourth street, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Jerry McCarthy, South Bethlehem, Pa. Brick and stone, consists of general interior and exterior alterations. Plans completed. Owner ready for bids.

Residence, South Bethlehem, Pa., \$10,000. Architect, David Levy, Buckley Building, Allentown, Pa. Owner, Samuel Weisenberger, South Bethlehem, Pa. Brick or hollow tile



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and stucco, 2 stories and basement, 35x30 feet and 14x11 feet, slate roof (heating, plumbing, tile work and fixtures reserved), vacuum heating, hardwood floors, tile work, metal lath. Architect taking bids. Allentown Const. Co., Jacob Nagel, L. M. Kratz & Son, Allentown, Pa.; Heiney & Pfaff, Wernersville, Pa., are figuring.

Factory (add.), Hatfield, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owners, The Hatfield Real Estate Co., Hatfield, Pa. Brick and stone, 3 stories (80x36 feet, slag and tin roof, steam heat, electric lighting, fire doors, fire escapes, pine floors, elevators. Owners have received bids.

Sewage Disposal Plant, Allentown, Pa. Engineer, Charles D. Weirbach, City Engineer, Allentown, Pa. Owners, City of Allentown, Allentown, Pa. Work contemplated.

School, Boyertown, Pa., \$75,000. Architect not yet selected. Owners, School Board of Education, Boyertown, Pa. Work contemplated.

Schools (2), Rosedale and Hyde Park, Reading, Pa. (Muhlenberg Township). Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Muhlenberg Township School District, Muhlenberg Township, Pa. Brick, 2 stories. Plans in progress.

Filtration Plant, Mohnton, Pa. Architects, Wm. H. Dechart & Son, Baer Building, Reading, Pa. Owners, Mohnton Water Co., Mohnton, Pa. Reinforced concrete, 2 slow sand filters, 90x60 feet. Plans completed.

Country Residence, Pennside, Reading, Pa., \$6,000. Architect, L. D. Lance, Reading, Pa. Owner, Harry Dickinson, Reading, Pa. Stone and frame, 2½ stories, 39x32 feet, shingle roof, hot water heating, tile work, hardwood floors. Plans in progress.

Schools (add.) (3), Reading, Pa. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board of Reading, Reading, Pa. Brick, 2½ stories, 40x65 feet, slate roof. Plans in progress.

Factory (add.), Reading, Pa. Architects, Wm. H. Dechart & Son, Baer Building, Reading, Pa. Owners, Reading Steel Casting Co., Reading, Pa. Corrugated iron and steel, 1 story, 40x60 feet, roof undecided, wood block floors. Plans in progress.

Almshouse (add.), Schuylkill Haven, Pa. Architect, Frank X. Reilly, Pottsville, Pa.

Owners, Poor Directors of Schuylkill Haven, Schuylkill Haven, Pa. Brick, 1 story. Plans about to be started.

Church (alt. and add.), Bedford, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, St. Paul's Reformed Church, Rev. J. A. Eyler, pastor, Bedford, Pa. Brick, 1 story and basement, slate roof. Owners taking bids.

Building No. 37, Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Carpenter Steel Works, Reading, Pa. Corrugated iron, 1 story, 50x75 feet. Architects taking bids, due May 16th. Beard Const. Co., Reading Const. Co., and Daniel H. Hunter, all of Reading, Pa., are figuring.

Residence (alt. and add.), 510 Cattell street, Easton, Pa., \$1,500. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, George R. Elder, on premises. Stone and brick, 2 stories (plumbing and heating reserved), oak, pine and cement floors, electric lighting, tile work, metal lath. Architects taking bids, due May 26th. R. T. & C. D. Stewart Const. Co., A. A. Bechtel, and Asa P. Smith & Son, all of Easton, Pa., are figuring.

Residence (alt. and add.), Glenn Road, Ardmore, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, S. P. Curtis, 712 Locust street, Philadelphia. Stone, 2½ stories, 30x26 feet and 7x22 feet, tin and shingle roof (plumbing, heating, tile work and lighting reserved), oak floors, waterproofing and dampproofing, ornamental iron work. Architect taking bids, due May 21st at noon. Graham-Campion Co., Otis Building; E. E. Hollenback, Inc., 1804 Brandywine street; H. H. Burrell, 206 South Quince street; James H. Wells, Otis Building; J. Sims Wilson Co., 1125 Brown street; Stokes Bros., 6723 Musgrave street; Wm. D. Smedley, Narberth, Pa., are figuring.

Power House and Cistern, Yeadon, Delaware County, Pa. Architect, Jesse T. Hoekstra, 3612 South Eighty-fourth street, Philadelphia. Owner, Theodore Presser, 1712 Chestnut street, Philadelphia. Brick, steel, concrete and stone trim, 1 story, 66x96 feet, slag roof, concrete floors, metal lath (lighting and flooring reserved), metal lath, iron stairs, waterproofing. Owner taking bids, due May 19th. Metzger & Fisher, Otis Building; H. E. Grau & Co., 1709

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Sansom street; Wills-Ludwick Co., 34 South Seventeenth street; James B. Flounders, 1329 Arch street; Turner Concrete Steel Co., 1713 Sansom street; Alfred James, Bala, Pa.; H. E. Batton, Twelfth and Sansom streets, and Graham-Campion Co., Otis Building, are figuring.

Residences (14), Yeadon, Delaware County, Pa. Architect, Jesse T. Hoekstra, 3612 South Eighty-fourth street, Philadelphia. Owner, Theodore Presser, 1712 Chestnut street, Philadelphia. Brick, stone and frame, 2½ stories and 1½ stories, shingle roof, central steam heating, electric lighting, tile work, hardwood floors. Plans about completed. Owner will take bids in ten days.

Pennsylvania Contracts Awarded

Bridge, between Bethlehem and South Bethlehem, Pa. Engineer, Mr. Newmeyer, Bethlehem, Pa. Owners, Bethlehem Bridge Committee, Mr. Schaffner, Bethlehem, Pa. Wood, concrete and steel, 400 feet long, 30 feet wide. Contract awarded to Horseheads Const. Co., Horseheads, N. Y.

Residences (6), Hill Top, Bethlehem, Pa., \$6,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. T. Magee, Wilber Trust Building, South Bethlehem, Pa. Brick, hollow tile and stucco, 2½ stories, 26x30 feet, asbestos shingle roof, hot water heating, electric lighting, hardwood floors, electric lighting, metal lath, tile work. Contract awarded to L. O. Gramley, Bethlehem, Pa.

Factory, Hazleton, Pa., \$500,000. Architects, Lockwood, Greene & Co., Park avenue and Fortieth street, New York City. Owners, Duplan Silk Co., Hazleton, Pa. Brick, reinforced concrete and stone, 4 stories, 319x106 feet, composition roof, electric lighting, concrete and pine floors, terrazzo work, hollow tile, hollow metal sash, skylights and doors,

safety treads, roof ventilators, waterproofing, wire work, ornamental iron work. Contract awarded to F. W. Mark Cont. Co., Finance Building, Philadelphia.

Residence (add.), Lansdowne avenue, Lansdowne, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Mrs. M. Russell Berger for Frank H. Fleer, Lansdowne, Pa. Hollow tile and plaster, 3 story addition, 20x30 feet, shingle roof, hot air heating, electric lighting, tile work, pine floors, metal lath. Contract awarded to Geo. W. Riley, Lansdowne, Pa.

Residence (alt. and add.), Bala, Pa., \$4,000. Architects, Zantzing, Borie & Medary, Otis Building, Philadelphia. Owner, G. Brinton Roberts, Bala, Pa. Stone, consists of alteration to porch, slag roof, electric lighting. Contract awarded to Alfred James, Bala, Pa.

Warehouse (alt. and add.), Scranton, Pa., \$12,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, R. J. Fleming, Greenwick street, Scranton, Pa. Brick, 2 stories, 80x80 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to R. C. Dean, Scranton, Pa.

Church and Hall, Forrest City, Pa. Architect, John Feeney, Coal Exchange Building, Scranton, Pa. Owners, St. Anthony Lithuanian R. C. Church, Forrest City, Pa. Frame, 1 story, 45x100 feet, slate roof (electric lighting and steam heating reserved), wood floors, metal ceilings, ornamental iron work. Contract awarded to Forrest City Lumber Co., Forrest City, Pa.

Superintendent's Residence, Wilkes-Barre, Pa. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Private Ward Hospital, Wilkes-Barre, Pa. Brick, 2½ stories, 37x33 feet, slate roof, steam heating, electric lighting, tile work, hardwood floors. Contract awarded to Curtis & Co., Wilkes-Barre, Pa.

School (8 rooms), Alden, Newport Township, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, School Board of Newport Township, Wanamie, Pa. Brick (fireproof construction), 2 stories, 95x75 feet, slag roof, wood floors (fan system of heating, electric lighting and plumbing reserved), metal lath. Contract awarded to Herman Mailander, Wilkes-Barre, Pa.

Residence and Garage, Hazleton, Pa., \$15,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Chas. Kehoe, Hazleton, Pa. Brick, stucco, hollow tile, 2½ stories, 40x48 feet, tile roof, vapor heating, electric lighting, hardwood floors, hollow tile, tile work. Contract awarded to James Campbell, Hazleton, Pa.

Double House, Bowman street, Wilkes-Barre, Pa. Architect, private plans. Owner, Louis Goldstein, Wilkes-Barre, Pa. Frame, 2½ stories, 36x42 feet, slate roof, hot air heating,

electric lighting, wood floors. Contract awarded to Ed. Fulfert, Wilkes-Barre, Pa.

Garage, Lower Merion Township, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Jonathan R. Jones, Lafayette Road, near River Road, Lower Merion Township, Pa. Brick and stone, 1 story, 21x21 feet, slate roof (heating, lighting, plumbing and grading reserved), concrete floors. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Factory, Allentown, Pa., \$30,000. Architects, Jacoby & Wieshampel, Allentown, Pa. Owner, James K. Bowen, Allentown, Pa. Brick (fireproof construction), 4 stories, 25x100 feet, slag roof (steam heating, electric work and elevator reserved), wood floors, rolled steel sash. Contract awarded to Wm. H. Gange-were & Co., Allentown National Bank, Allentown, Pa.

Residences (1,500), Bethlehem and South Bethlehem, Pa. Architect Fred. B. Marvin, 303 Fifth avenue, New York City. Owners, Saucon Land Imp. Co., South Bethlehem, Pa. Brick, hollow tile and stucco and frame, 2 stories (singles and doubles), and block, composition and slate and shingle roofs, yellow pine and maple floors. Contract awarded to Thompson & Starrett, Inc., 49 Wall street, New York City.

Garage, South Bethlehem, Pa. Architect, J. R. Wilt, South Bethlehem, Pa. Owner, H. A. Conahan, South Bethlehem, Pa. Brick, 2 stories, 60x115 feet, slag roof, concrete floors, steam heating, electric lighting, gasoline storage system. Contract awarded to Max Savage, Bethlehem, Pa.

Residence and Garage, Ridley Park, Pa. Architects, Norman Hulme & John Dull, 1524 Chestnut street, Philadelphia. Owner, F. F. Turner, 30 West Hineckley street, Ridley Park, Pa. Stucco and hollow tile, 2 stories, 24x46 feet (asbestos shingle roof reserved), hot water heating, electric lighting, tile work, hardwood floors, metal lath, wire work. Contract awarded to Gilligan & Son, Clifton Heights, Pa.

Hospital, Allentown, Pa., \$180,000. Architect, G. W. Guile, New York City. Owners, Sacred Heart Hospital, care of Monsignor P. J. Masson. Brick, 4 stories (heating, electric work, plumbing and elevator reserved), tile, marble and terrazzo work, slag and red tile roof, rolled steel skylights, fire escapes, iron stairs, concrete floors, hollow tile, roof ventilators. Contract awarded to Wm. H. Gange-were & Co., Allentown, Pa.

Residence, Hill Top, Bethlehem, Pa., \$10,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, H. T. Magee, Bethlehem, Pa. Brick, 2½ stories, 30x43 feet, slate or shingle roof, hot water heating, electric lighting, tile work, hardwood floors,

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hollow tile, metal lath. Contract awarded to L. O. Gramley, Bethlehem, Pa.

Residence, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, A. Newton Roberts, West Bethlehem, Pa. Hollow tile and stucco, 2½

stories, 46x32 feet, slate roof, hot water heating, electric lighting, vacuum cleaning system, hardwood floors, plumbing and drainage, cement and brick work. Contract awarded to Tilghman H. Moyer, 424 Hamilton street, Allentown, Pa.

\$7,000. Architect, J. O. Hunt, 114 Montgomery street, Trenton, N. J. Owners, DeLion Tire and Rubber Co., East State street, Trenton, N. J. Reinforced concrete, 1 story, 20x60 feet, concrete roof and floors, steam heating, electric lighting, rolled steel skylights. Contract awarded to Fred Scott, Trenton, N. J.

Factory (add.), Trenton, N. J., \$10,000. \$10,000. Architect, J. O. Hunt, 1114 Montgomery street, Trenton, N. J. Owners, DeLion Tire and Rubber Co., East State street, Trenton, N. J. Brick, second story addition, 50x112 feet, concrete and slag roof, reinforced concrete floors, hollow tile, steam heating, elevators, safety treads, roof ventilators, metal window guards, fire escapes, iron stairs. Contract awarded to Fred Scott, Trenton, N. J.

NEW JERSEY Construction News

Farm House, Port Mercer, N. J., \$2,000. Architect, Irwin T. Catherine, 1418 South Fifty-fifth street, Philadelphia. Owners, Mr. and Mrs. Isaac K. Champion, 3312 Race street. Frame and stucco, 2 stories, 25x32 feet, shingle roof, pine floors. Plans completed. Owners will build.

School, Clementon Heights, N. J., \$5,000. Architect, Thomas Stevens, Camden, N. J. Owners, School Board of Clementon, Clementon, N. J. Frame, 1 story, 34x50 feet, shingle roof, yellow pine floors, Smith system of heating and ventilating, metal lath. Owners taking bids, due May 22nd. Fred Lange, Audubon, N. J., and Charles Seybold, Clementon, N. J., are figuring.

Garage, Camden, N. J. Architects, Custer & Seltzer, Third and Market streets, Camden, N. J. Owners, Wm. F. Wolff Co., care of architects. Brick, 1 and 2 stories, 56x100 feet, slag roof (heating, electric lighting, elevator and gasoline storage system reserved), hot water heating, electric lighting, wood floors. Plans in progress.

Crusher Plant, Paulsboro, N. J. Architects, Engr. Dept. Harrison Bros. & Co., Inc., Thirty-fifth and Gray's Ferry Road, Philadelphia. Owners, Mantua Chemical Co., Paulsboro, N. J. Brick, 1 story, 41x10 feet and 65x10 feet, asbestos roof, cement floors, metal lath, rolled steel sash. Revised plans in progress. Engineers will take bids in about one week.

Water Supply System, Pleasantville, N. J. Engineers, Harrison, Mertz & Emlen, Inc., Commercial Trust Building, Philadelphia. Owner, Dr. J. P. Anderson, Pleasantville, N. J. Steel pressure tank, motor driven deep well pump. Engineers ready for sub-bids.

Water Supply System, Pleasantville, N. J. Engineers, Harrison, Mertz & Emlen, Inc., Commercial Trust Building, Philadelphia. Owner, Isaac H. Nutter, Pleasantville, N. J. Steel pressure tank, motor driven deep well pump. Engineers ready for sub-bids.

Residence (alt. and add.), Mt. Holly, N. J., \$1,500. Architects, Folsom & Stanton, 1328

Walnut street, Philadelphia. Owner, James Logan, 11 Main street, Mt. Holly, N. J. Frame (enclosed porch), tin and shingle roof, electric light. Plans in progress. Architects will take bids in a week.

Residence (alt. and add.), Port Mercer, N. J. Architect, Irwin T. Catherine, 1418 South Fifty-fifth street, Philadelphia. Owners, Mr. and Mrs. Isaac K. Champion, 3312 Race street, Philadelphia. Stone and brick, 1 story rear addition, 22x13 feet, slate and tin roof (floors reserved), hot water heating, electric lighting, tile and marble work, concrete and composition floors, metal lath. Owners will build.

Store Building (alt. and add.), Trenton, N. J., \$10,000. Architect, Robt. A. Schumann, Trenton, N. J. Owners, Schulte Cigar Co., Trenton, N. J. General interior and exterior alterations, tile floors, tile work, metal bulks, metal ceilings. Plans in progress.

Residence, Trenton, N. J., \$2,000. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Levi B. Risdon, Trenton, N. J. Consists of general interior alterations. Plans completed.

Passenger Station, Freight Station and Baggage and Express Building, Princeton, N. J., \$75,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Stone, brick and steel, 1 story. Plans completed. Owners will take bids in a few days.

Club House, Bowling Alley and Heater House, Carney's Point, N. J. Architect, private plans. Owners, E. I. DuPont de Nemours Powder Co., Wilmington, Del. Frame and shingle. Club house, 1½ stories, 41x96 feet and 52x45 feet; bowling alley, 1 story, 40x91 feet; heater house, 1 story, 10x15 feet, timber and corrugated iron, shingle roof, hot water heating, pine floors (electric work, plumbing, fixtures and hardware reserved). Owners taking revised bids, due May 21st. Driscoll Co., Stock Exchange Building, Philadelphia, are figuring.

Miscellaneous Construction News

Machine Shop, Navy Yard, Norfolk, Va. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, chief, Washington, D. C. Reinforced concrete and brick, 1 story and mezzanine, 130x600 feet, composition roof (pine floors, heating, lighting and plumbing reserved), rolled steel sash, hollow tile, wire work. Owners taking bids, due May 19th. Warren-Moore Co., Commercial Trust Building, Philadelphia, are figuring.

Church and Sunday School, Fifteenth and Monroe streets, Washington, D. C. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, First Reformed Church, Washington, D. C. Brick and stone, 1 story and basement, 50x80 feet, slate roof, vacuum heating, electric lighting, tile and marble work, pine floors. Owners taking bids, due May 18th. Will Kimmel, 1508 Columbia Road, N. W.; W. E. Mooney, Evans Building; John Hailship, 2120 First street, N. W., and Henry B. Davis, Pope Building, all of Washington, D. C., are figuring.

Factory, Lillie street, between Seventeenth and Eighteenth streets, Newark, N. J., \$375,000. Engineers, John H. & Wilson C. Ely, Newark, N. J. Owners, General Electric Co., Newark, N. J. Brick, reinforced concrete and steel, 4 stories and basement, 512x108 feet, slag roof (elevators, heating and lighting reserved), concrete floors, hollow tile, tile and terrazzo work, hollow metal sash, doors and skylights, kalamein doors, waterproofing, wire work, ornamental iron work. Contract awarded to F. W. Mark Const. Co., Finance Building, Philadelphia.

Residences (2), Twenty-sixth street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Pierce & Middleton, Wilmington, Del. Brick, 2 stories, 16x20 feet, slag roof, hot water heating, electric lighting, yellow pine floors. Plans in progress.

Factory Building, Blind Asylum, West Eighth street, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Delaware Commission for the Blind, Wilmington, Del. Reinforced concrete and brick, 3 stories, 23x60 feet, composition roof (steam heating, plumbing and electric lighting reserved), rolled steel sash and skylights, fire doors, concrete floors, elevators, iron stairs. Architects have received bids.

Garage, Kennett Pike, Wilmington, Del. Architects, Brinley & Holbrook, 166 Fifth avenue, New York City. Owner, W. A. Luke, Kennett and Montchanin streets, Wilmington, Del. Stone, 2 stories, electric lighting. Archi-

NEW JERSEY Contracts Awarded

Factory, Red Bank, N. J., \$110,000. Architect, A. B. Lacey, 1012 Walnut street, Philadelphia. Owners, Sigmund Eisner Co., 103 Fifth avenue, New York City. Brick and reinforced concrete, 3 stories and basement, 58x202 feet, slag roof, steam heating, electric lighting, maple floors. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street, Philadelphia, Pa.

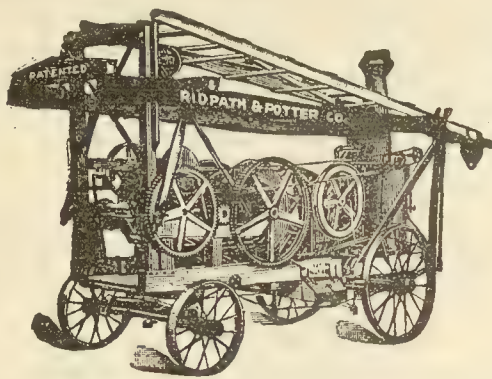
Stores (8), Chelsea avenue and Boardwalk, Atlantic City, N. J., \$14,000. Architect, private plans. Owner, Ernest Schwemm, 13 Wistar street, Germantown. Brick and hollow tile, 1 story, 40x120 feet (aggregate size), slag

roof, electric lighting, yellow pine floors, marble work, metal lath, plastering. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Bakery (add.), Willow street and Pennington avenue, Trenton, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Robert C. Kolb, on premises. Brick, 2 stories, 100x39 feet, slag roof, yellow pine and maple floors, flroled steel sash, fire doors. Contract awarded to I. Harper Clayton, American Mechanics' Building, Trenton, N. J., for carpenter work.

Factory, East State street, Trenton, N. J.,

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
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1927 W. Montgomery Avenue, Philadelphia, Pa.

tests taking bids, due May 10th. W. D. Haddock & Co., 804 Orange street, Wilmington, Del., are figuring.

Apartment House, Ninth and Washington streets, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Dr. Charles J. Kinkade, Ninth and Washington streets, Wilmington, Del. Brick, 3 stories, 32x100 feet, asphalt roof (heating reserved), electric lighting, tile and marble work, hardwood floors, metal lath, iron

stairs. Architects taking bids. W. D. Haddock & Co., 804 Orange street, Wilmington, Del., are figuring.

Residence (alt. and add.), Ninth and Orange streets, Wilmington, Del. Architect, E. Canby May, DuPont Building, Wilmington, Del. Owner, James T. Chandler, on premises. Brick, 3 stories, slag roof, hot water heating, wood floors. Contract awarded to J. Howard May, 1014 Rodney street, Wilmington, Del.

MARYLAND

Construction News

Chapel, Marydel, Md. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Rt. Rev. John J. Monaghan, Wilmington, Del. Frame and concrete, 1 story, 25x50 feet, slate roof, yellow pine floors. Plans in progress.

Garage (alt. and add.), 1033 Cathedral street, Baltimore. Architect, Fred Thomas, Gunther Building, Baltimore. Owner, Frank M. Olmstead, 1007 North Eutaw street, Baltimore. Brick, 1 story, 22x150 feet, slag roof, concrete floor, steam heat, skylights, plumbing. Plans in progress.

Bungalow, Catonsville, Md. Architect, Benjamin Frank, 328 North Charles street, Baltimore. Owners, Jewish Home for Woman, Catonsville, Md. Frame, 1½ stories, shingle roof, plumbing. Plans in progress.

Residence and Garage (remodeling), Cedarcroft, Md. Architect, Fred Thomas, Gunther Building, Baltimore. Owner, G. J. Halter, 4600 York Road, Govans, Md. Frame and concrete floors, slate roof, electric lighting. Plans in progress.

Apartments (alts.), Chase and Calvert sts., Baltimore. Architect, John K. Staek, 12 East Lexington street, Baltimore. Owner, Wm. A. Danner, Equitable Building, Baltimore. Consists of general interior alterations, new steam

heating, electric lighting, painting, plastering, plumbing. Plans in progress.

School, Linwood, Fleet and Streeper streets, Baltimore, \$100,000. Architect, A. C. Leach, 223 North Charles street, Baltimore. Owners, City of Baltimore, James H. Preston, Mayor, City Hall. Brick, 3 stories, slate or slag roof, steam heating, electric lighting. Owners, care of J. J. Byrne, Building Inspector, City Hall, Baltimore, taking bids, due May 23rd. J. Henry Miller, Inc., Eutaw and Franklin sts.; Jos. Schamberger, 1 North Duncan street; W. E. Harn Co., 213 North Calvert street; James L. Robinson Const. Co., 218 East Lexington street, and Charles Herbold & Son, 2768 West North avenue, are figuring.

Building (alt. and add.), 1720 Thames st., Baltimore. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owner, John Dippel, 1702 Thams street, Baltimore. Brick, 2 story addition, 15x44 feet, tin roof, skylights, concrete work, plastering, painting, plumbing, cement work and general interior alterations. Builders, Dippel & Lauer, 25 N. Ellwood avenue, Baltimore, are taking sub-bids on all lines.

Residences (11), Cottage and Third avenues, Baltimore, \$27,500. Architect, Stanislaus Rus-

sel, 2900 Clifton avenue, Baltimore. Owners, Cityco Realty Co., 2 East Lexington street, Baltimore. Stone, brick and cement, slate and slag roofs, steam heating, electric lighting, tile baths, hardwood floors. Owners are taking sub-bids on all lines.

Post Office, Cambridge, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Plans completed. Owners ready for bids, due June 21st.

Packing Plant, Baltimore, Md. Architect, C. B. Comstock, 110-12 West Fortieth street, New York City. Owners, Seaboard Packing Co., Baltimore. Reinforced concrete and steel, stone, 3½ stories and sub-basement, 164x110 feet, composition roof (elevator and lighting reserved), concrete, pine and brick floors, rolled steel sash, hollow metal skylights, fire and hollow metal doors, iron stairs, hollow tile, roof ventilators, metal window guards, waterproofing, wire work. Architect taking bids, due May 19th. In addition to those previously reported, B. F. Bennett Building Co., 123 S. Howard street; Singer-Pentz Co., Equitable Building; Consolidated Eng. Co., Calvert Building; Price Concrete Const. Co., Maryland Trust Building; West Const. Co., American Building; John Waters Building Co., 23 East Centre street, are figuring.

Residences (11), Thirty-fourth street and Cedar avenue, Baltimore. Architect, Fred E. Beall, 306 St. Paul street, Baltimore. Owner, Charles E. Litzinger, 3678 Falls Road, Baltimore. Brick, 2 stories, 16x60 feet, slag roofs, steam heating, electric lighting, plastering, painting, plumbing. Owner is sub-letting all contracts.

Maryland

Contracts Awarded

Superintendent's Cottage, Robinson, Md. Architect, Thos. B. Lippincott, Stephen Girard Building, Philadelphia. Owners, Brennan Sand Co., 123 South Third street, Philadelphia. Frame, 2 stories, 31x30 feet, shingle roof, pine floors, hot water heating or hot air heating. Contract awarded to Joseph D. Groh, Pasadena, N. J.

Restaurant (add.), 414 West Fayette street, Baltimore, \$15,000. Architect, private plans. Owners, Harmonie Cafe, on premises. Consists of 1 story addition, 30x48 feet, brick, skylights, tile work, slag roof, heating, electric lighting. Contract awarded to Adam Kratz, 118 South Carrollton street, Baltimore.

Residences (6), Greenmount avenue, near Butte Place, Baltimore, \$21,000. Architect, private plans. Owner, H. Webster Cooke, 210 Law Building, Baltimore. Brick, 2 stories, 24x40 feet. Contract awarded to Jerome I. Love, 2628 Harford avenue, Baltimore.

Residences, Garrison Boulevard and Hawthorne street, Baltimore, \$5,600. Architect, private plans. Owner, Raymond G. Sheppard, 4202 Penhurst avenue, Baltimore. Hollow tile, 2 stories, 26x40 feet, slate, tile and asbestos roof, vapor heating, electric lighting, plastering, tile work, hardwood floors, plumbing and painting. Contract awarded to John F. Hardy, Groveland avenue, Baltimore.

Warehouse, Russell and Ostend streets, Baltimore. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owner, Samuel Cooper, 2936 Brookfield avenue, Baltimore. Brick, 2 stories, 80x155 feet, slag roof. Contract awarded to Isadore Merion, 1720 East Baltimore street, Baltimore, Md.

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ARTIFICIAL STONE

While Still in Infancy, Product is Gaining in Popularity.

The popularity of artificial stone dates from its introduction to the building trade as a structural material, and while the product is still in its infancy, it has achieved a wide usage on account of its low cost when compared with that of natural stone and also by virtue of its workability. Artificial stone is rapidly superseding the genuine article for all parts of the superstructure of many types of buildings, and particularly in the construction of apartment houses and commercial buildings.

The beginning of the twentieth century marked the manufacture of the first concrete blocks made of Portland cement, and this type of block is now practically obsolete. With the old-fashioned concrete block, not considering its shortcomings as regards to pressure tests, it was necessary to fit the building to the block, as they were made in only a few stock sizes, while at the present time there is much greater flexibility in regard to size and the advanced method of manufacture makes the stone block to fit the building on which it is to be used.

Present day stone blocks are made from full sized details supplied by the architects of the individual building and are susceptible of a wide range in size and color treatment. The architectural profession has numerous opportunities in making this product one of the coming building materials. By the use of artificial stone distinctly individual effects may be achieved and the product can be made to match practically all other structural materials in color and texture. Brick, limestone, sand stone, granite and stucco can be imitated and the material may be used for column caps, ornamental columns, water tables, lintels and sills, and can also be used as a facing material for the upper stories of high buildings instead of the more expensive natural materials.

Usually in the specifications for cast or artificial stone of the best type the architects require a stone block made in a sand mold, packed solid of the same material through and through. Where faced stones, made monolithic with the backing are necessary, the facing is required to be at least one and one-half inches in thickness. Generally the stone is surfaced after it has been removed from the mold. After the molds are packed, the stones are usually left in the wet molds for at least ten days, thus allowing a slow process of hardening. This varies, however, according to the atmospheric conditions, and it is sometimes necessary to allow the block to remain in the mold for as much as thirty days.

The texture and density of artificial stone are subject to very strict specifications, and color is another factor that is always given close attention during manufacture. The method of obtaining the proper color of the finished product is by the proper selection of the aggregates and artificial coloring matter is never used in the best grades of cast stone.

One of the distinct advantages gained through the use of this material in building construction is the fact that there is no cutting and fitting on the ground and hence no waste of material. Whatever cutting is done is of the ornamental sort, and these carvings are done by specialists in that line from models submitted and approved by the architect of the structure, the same as would be done if genuine stone were used. This type of stone work is capable of moulding similar to that of architectural terra cotta, all that is necessary before erection in the building being a small amount of hand tooling, which is done on the job. Artificial stone makes attractive buildings possible at a cost much lower than it would be if natural stone were used.

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"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers "stick" year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

There never was, never will be, a better medium for the man who has something to sell to a given class of buyers than the trade paper whose circulation is limited to that class. Newspapers with their swollen circulations strike at best but a chance target here and there. The trade paper carries your rifle fire to targets exclusively. You can't miss,—if your ammunition's right.

Some big guns are smooth bores.—Ex.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Laundry, 5722 Race street, \$22,000. Philadelphia Laundry Co. (O), 5722 Race street. L. H. Smith (C), Hale Building. Brick, 2 stories, 118x102 feet, slag roof.

Garage, Smedley and Erie avenue, \$400. Wilbert Short (O), on premises. Wm. H. Schultz (C), 3340 North Carlisle street. Brick, 1 story, 11x15 feet, slag roof.

Storage Building, 800 to 806 North Hutchinson street, \$4,000. Powers Weightman Rosengarter (O), Ninth and Parrish streets. R. C. Ballinger & Co. (C), 218 North Thirteenth street. Brick, 1 story, 48x42 feet.

Lodging House, 263 North Sixth street, \$1,000. E. S. Armstrong (O), 321 North Ninth street. A. H. Spenard (C), 822 Wood street. Fire repairs.

Dwelling, 4932 Brown street, \$3,800. Michael S. Kirschner (O and C), 421 Snyder avenue. Brick, 2 stories, 16x55 feet, slag roof, hot water heating.

Garage, 736 Lincoln Drive, \$1,200. Mrs. H.

B. Plumer (O), 750 Lincoln Drive. J. A. Dunkelberger (C), 71 Herman street. Stone, 1 story, 19x23 feet, slate roof.

Forge Shop, 2300 East Tioga street, \$2,500. S. A. Ashman & Sons Co. (O), on premises. Robert B. Lederle (C), 830 Witherspoon Building. Brick, 22x80 feet, addition, 1 story, slag roof, rolled steel sash, plank floor.

Garage, Twelfth and Somerville avenue, \$400. John B. Mayer (O and C), Broad and Cayuga. Stone, 1 story, 17x23 feet, metal lath, concrete floor.

Dwelling, 4100 Manayunk avenue, \$2,500. M. Dura (O and C), 4151 Cresson street. Stone, 2 stories, 24x26 feet, asbestos roof, hot water heating, pine floors.

Dwelling, Lawndale avenue and Cottman street, \$2,350. Karl Butter (O), 2345 North Fourth street. Wm. G. Isles & Son (C), 1103 Lerick street. Brick, 2 stories, 14x38 feet, slag roof, hot air heating.

Bungalow, Bingham and Vincent streets,

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\$2,350. M. R. Moore (O), 3445 North Water street. Wm. G. Isles & Son (C), 1103 Levick street. Frame, 1 story, 24x40 feet.

Garage, Lincoln and Springer street, \$1,500. S. Heiter (O), on premises. James N. Mitchell (C), Forty-sixth and Market streets. Hol low tile, 1½ stories, 25x20 feet, tile roof, concrete walls and floor.

Factory, American and Cambria streets, \$3,600. Haffleigh & Co. (O), on premises. Drehmann Paving Co. (C), 2622 Parrish street. Steel beams and concrete.

Garages (2), Fifty-ninth and Chestnut streets, \$300. B. J. Tlyn (O), 4011 Market street. F. H. Whiteman (C), 409 Harrison Building. Iron on iron.

Garage, City Line and Church Road, \$2,500. James Gilfillan (O), West End Trust Building. F. A. Havens Co. (C), 845 North Nineteenth street. Stone, 2 stories, 20x23 feet, slate roof.

Wagon Shop, 407 North Randolph street, \$5,200. Frank Schanz (O), on premises. Herman Voight (C), Twenty-eighth and Thompson streets. Brick, 1 story, 46x63 feet, slag roof.

Dwelling, 338 East Price street, \$2,500. Leandren Aylone (O), 336 East Price street. John H. Frith (C), 5817 Osceola street. Brick, 2 stories, 16x43 feet, slag roof, hot water heating.

Store House, 3218 Chestnut street, \$300. Kal Pheno Chemical Co. (O), on premises. France & Mussar (C), 3324 Chestnut street. Brick, 1 story, 10x12 feet, fire doors, concrete slabs.

Chapel, Tenth street and Northeast Boulevard, \$36,000. First Christian Church (O), care of architects. Architects, R. B. Beucker Price & McLanahan, Bellevue Court. P. Borthwick (C), 8018 Germantown avenue. Stone, 2 stories, 73x53 feet, slag roof, hot water heating, hemlock flooring.

Garage, Sixty-second and Cedar avenue, \$8,000. Armenag Mahjoubian (O and C), 642 South Sixtieth street. Brick, 2 stories, 40x94 feet, hot water heating.

Dwellings (4), Silverwood and Fountain streets, \$7,200. Albert Keller (O and C), 4540 Manayunk avenue. Brick, 2 stories, 14x30 feet, slag roof, hot air heating.

Factory, Broad and Brown streets, \$45,000. Roy A. Heyman & Bro. (O), Weidener Building. Turner Concrete Steel Co. (C), 1713 Sansom street. Stone and terra cotta, 4 stories, 40x97 feet, slag roof.

Station, Fox and Hunting Park, \$160,000. Philadelphia Electric Co. (O), 1000 Chestnut street. John R. Wiggins, Inc. (C), Otis Building. Brick, 1 story, 134x145 feet.

Crane Runway, Richmond and Norris sts., \$5,000. Wm. Cramp & Sons Shipbuilding Co. (O), Philadelphia. Hoffman Eng. and Const. Co. (C), Pennsylvania Building. Iron on iron, 1 story, 42x132 feet.

Dwelling, 3323 Vankirk street, \$350. Wm. Turner (O), on premises. R. Philips (C), 6443 Tulip street. Brick, 1 story rear addition, 10x10 feet, slag roof.

Dwelling, 1912 Pine street, \$3,500. Benj. J. Taylor (O), 1729 Spruce street. Wm. N. Thompson (C), 1529 Filbert street. Interior alterations, tile work, 3 bath rooms, shed on rear, 1 story, 10x8 feet, tin roof.

Church, Monmouth and Kensington avenue, \$1,200. Simpson M. E. Church (O), on premises. Barnes Bros. (C), 2080 East Willard street. Interior alterations.

Proposals

Bonds. Improvements. Equipment.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 12, 1917.—Sealed proposals will be opened in this office at 3 P. M., June 21, 1917, for the construction complete of the United States post office at Cambridge, Md. Drawings and specifications may be obtained from the custodian of site at Cambridge, Md., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 9, 1917.—Sealed proposals will be opened in this office at 3 P. M. June 18, 1917, for the construction complete of the United States post office at Akron, Ohio. Drawings and specifications may be obtained from the custodian of site at Akron, Ohio, or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 3, 1917.—Sealed proposals will be opened in this office at 3 p. m., June 12, 1917, for the construction of the United States post office at State College, Pa. Drawings and specifications may be obtained from the custodian of the site at State College, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 30, 1917.—Sealed proposals will be opened in this office at 3 p. m., May 28, 1917, for changes in plumbing, gas piping, conduit and wiring and lighting fixtures, in the United States Post Office at Beaver Falls, Pa., in accordance with the specification and drawings, copies of which may be had at this office or at the office of the custodian, Beaver Falls, Pa., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Alterations and Additions

Dwelling, 1905 North Howard street, \$300. M. C. Morgan (O), on premises. H. E. Miller (C), 2526 Coral street. Brick, 1 story rear addition, 12x12 feet, tin roof.

Store and Dwelling, 616 North Tenth street, \$700. G. Kirshner (O), on premises. Otto Malz & Son (C), 2108 North Lawrence street. New flush bulk.

Section House, 1,400 feet north of Martin's Mill Road, \$2,000. P. N. & N. Y. R. R. Co. (O and C), Twelfth and Market streets. Brick, 2 stories, 18x50 feet, pitched roof.

Dwellings, 5519-21-23-25 Lansdowne avenue, \$3,600. B. Isenberg (O), 4144 Leidy avenue. A. Mandelstan (C), 4144 Leidy avenue. Brick, 1 story, 16x15 feet.

Commission House, 314 South Front street, \$7,000. E. P. Stern (O), 308 South Front street. Henry C. Dahl (C), 231 South Eighth street. Brick, 2 stories, 15x52 feet, slag roof.

Distillery, Snyder avenue and Water street, \$6,000. Publicker Ward Distilling Co. (O), on premises. Joseph Levin Co. (C), 1530 South Sixth street. Brick, 2nd and 3rd story additions, 44x46 feet.

Factory, Mifflin and Delaware avenue, \$6,000. Crew Levick Co. (O), Land Title Building. Joseph Levin Co. (C), 1530 South Sixth street. Brick, 3rd story addition, 44x123 feet.

Apartments, 257-59 South Eleventh street, \$500. Theo. Philips (O), 902 South Forty-seventh street. Brownworth & Co. (C), 1611 Sansom street. Fire escapes.

Albatoir, Thirtieth and Race streets, \$6,000. West Philadelphia Stock Yards Co. (O), on premises. Barber Asphalt Co. (C), Thirtieth and Race streets. Removing present asphalt floor and replacing same with reinforced concrete.

Factory, 1225 Arch street, \$850. J. H. Dripps (O), Morris Building. Harry H. Wehmeyer (C), 1004 Lehigh avenue. Interior alterations.

Store and Dwelling 2319 Ridge avenue,

\$1,250. Joseph Feldman (O), Lincoln Building. Aaron Ribner (C), 2159 Ridge avenue. New flush bulk, change stairway.

Store, 923 Vine street, \$1,340. Commonwealth Trust Co. (O), 1201 Chestnut street. Lam Building Co. (C), 1001 Wood street. Fire repairs.

Office, Twenty-first and Somerset streets, \$400. Frank Mark (O and C), 2820 North Twenty-first street. Interior alterations.

Dye House, Amber and Allegheny avenue, \$4,000. General Processing Co. (O), Collins and Willard street. H. E. Baton (C), Twelfth and Sansom streets. Fire damage, rear addition, 1 story, 91x28 feet, concrete foundations and brick walls.

Dwelling, 1207 East Washington Lane, \$900. George P. Taylor (O and C), on premises. Stone, 2 stories addition 38x15 feet, slag roof.

Dwelling, Bartram avenue and Eighty-fifth street, \$325. T. Slidy (O), on premises. John Scholtz (C), Eighty-fifth and Tinicum avenue. Brick, 1 story, 14x16 feet.

Offices, 434 Walnut street, \$2,000. Stokes-Packard-Haughton-Smith (O), on premises. J. M. Daniels (C), 252 South Juniper street. Plastering and iron cornices at bulk, alterations.

Store, 806 Birch street, \$800. Dannenbaum Sons & Co. (O), on premises. Harry R. Rust (C), 19 South Eighth street. New toilets and alteration to bulk window.

Store and Dwelling, 204 North Second street, \$800. John Livzey (O), Allan's Lane. Wm. F. Ingham (C), 237 North Clarion street. New bulk windows.

Store and Dwelling, Fifteenth and Arch streets, \$1,300. Wm. C. Schank (O), on premises. J. Willen (C), 1710 Emory avenue. New bulk interior alterations.

Store and Dwelling, 2304 West Columbia avenue, \$800. F. Patchett (O), on premises. F. J. Wintz (C), 1618 North Twenty-seventh street. New flush bulk windows, interior alterations.

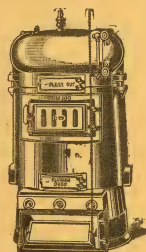
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Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.
- Builders' Supplies.**
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David France Co.,
Tasker st. wharf, Delaware River, Phila.
- Cement.**
P. H. Fairlamb Co.....115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.
Lehigh Portland Cement Co..Penna. Bldg., Phila.
- Columns (Metal).**
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The Barrett Co.....New York City and Phila.
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Grant Pulley and Hardware Co.,
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F. Weber & Co.....1125 Chestnut st., Phila.
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Philadelphia Electric Co.,
10th and Chestnut sts. Phila.
- Elevators.**
A. B. See Electric Elevator Co.,
Land Title Bldg., Phila.
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Warren-Knight Co.....136 N. 12th st., Phila.
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Henry M. Miller.....46-48-50 N. 2d st., Phila.
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American Chemical Paint Co.1118 S.11th st., Phila.
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Italian Marble Mosaic Co...433 Spruce st., Phila.
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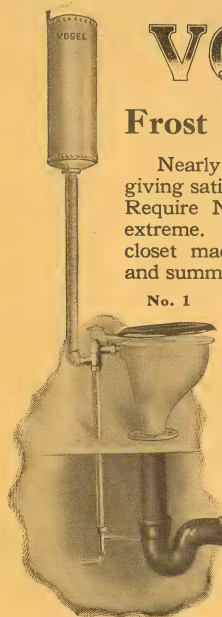
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Vol. XXXII., No. 21
May 23, 1917

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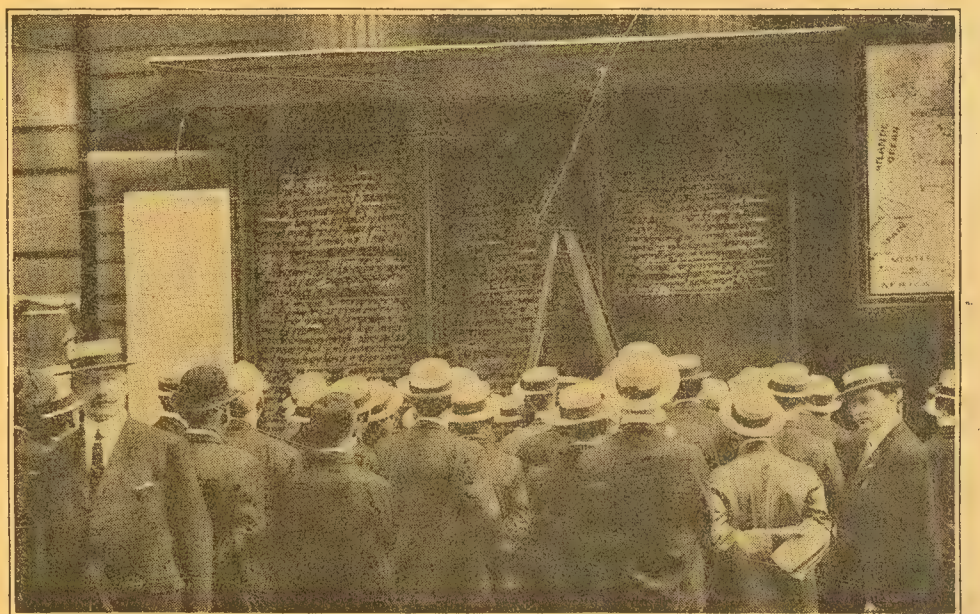


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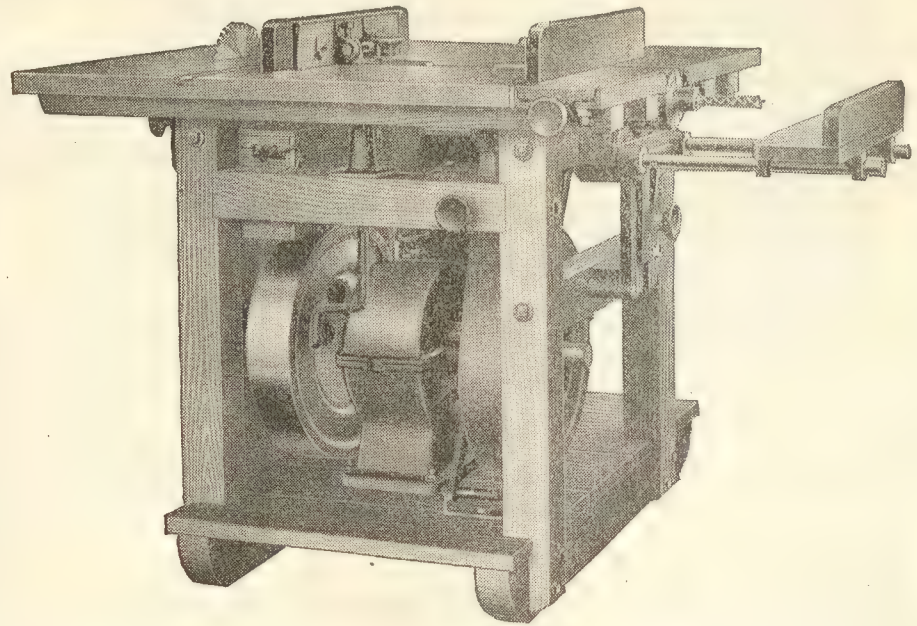
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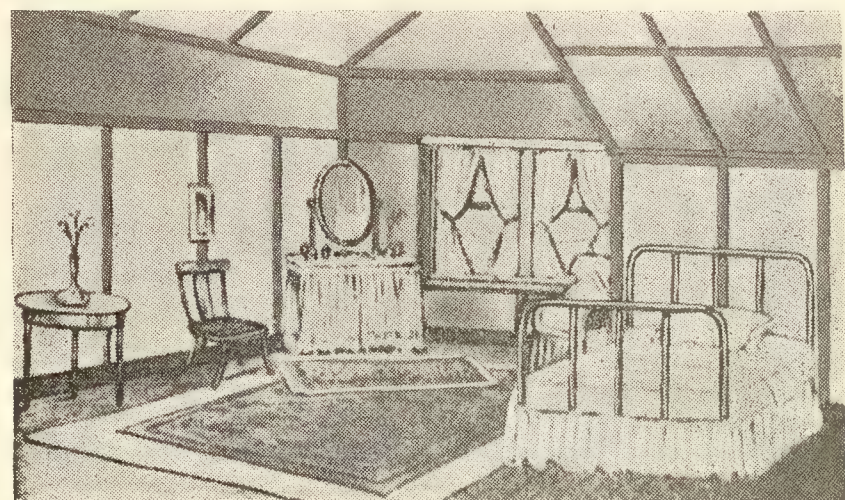
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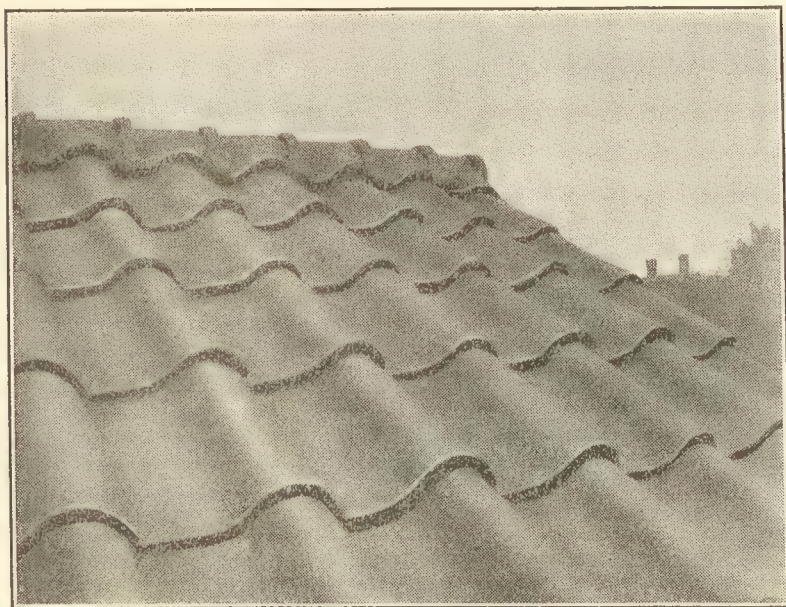
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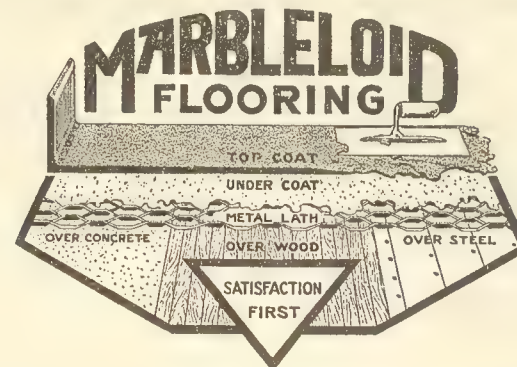
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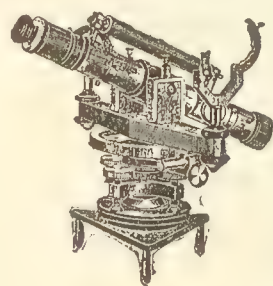
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A very reliable instrument for Architects and Contractors.

12-inch achromatic telescope, cross hairs, sun-shade and cap. Clamp and tangent to vertical axis, horizontal circle to degrees, by vernier to 5 minutes.

Other transits from \$15 to \$115.

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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades
VOLUME XXXII
Number 21
PHILADELPHIA
May 23, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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As The Editor Sees It



LAST week's GUIDE contained, among other things, a news local, headed "Builders Oppose Work Limitation," reporting the views of the Philadelphia Master Builders' Exchange in opposing Senate Bill 744 providing for the licensing of architects.

I am in receipt, from Mr. M. I. Kast, president of the Southern Pennsylvania Chapter of the American Institute of Architects, of the appended communication with reference to the bill in question and the stand of the builders in relation thereto.

President Kast writes me:

"In the matter of an article in your issue of May 16, under the title of 'Builders Oppose Work Limitation,' I beg to advise you, as a member of the committee which prepared the Act for the licensing of Architects, that the objections raised to Senate Bill No. 744 can not be valid objections from the builders' standpoint.

"There has been no intention, at any time, to restrict a builder, or an engineer, from making plans for a building. The thought is entirely, as the Act is drawn, and with some slight revisions, to prohibit any one from using the title of 'Architect' who is not qualified to do so.

"There is no annual examination and all architects who are practicing at the time of the passage of the Act, would be licensed without examination. All new men, coming in afterwards, would

either have to have a qualified standing, or pass an examination, as may be prescribed by the Board of Examiners of Architects.

"I ask that you give this information to the builders as well as to the public.

"The intention of the Act is solely to define the title 'architect' so that all who practice under it may be qualified to do so.

"Yours very truly,
(Signed) "M. I. KAST."

* * *

REINHART DEMPWOLF, of York, Pa., is vice-president of the Southern Pennsylvania Chapter; Edward Leber, of York, secretary, and W. B. Billmeyer, also of York, treasurer. President Kast is a Harrisburg man and a widely known and prominent practicing architect.

I beg to refer Mr. Kast's letter to the consideration of President Tyson and his colleagues of the Philadelphia Master Builders' Exchange. Judging by the tone of Mr. Kast's letter, there should be little difficulty experienced by the Exchange committee in arranging such differences of opinion as may exist between the builders and the architects in the matter of this bill.

* * *

I AM indebted to the courtesy of Mr. Kast for an official copy of House Bill No. 1323, which will be reprinted in the next number of THE GUIDE.

In regard to this bill Mr. Kast writes:

"I enclose Act No. 1323 which appears to me to be of such a character as should enlist the opposition of the builders' organization. It is sent you simply for information to use your pleasure with it as it may appeal to you."

* * *

HOUSE Bill 1323 is a typical job-creating sample of political legislating. It is designed to apply only to third class cities, boroughs and townships. Among the fat salaried jobs it proposes to create in mandatory fashion are these:

A Chief Inspector at \$4,000 a year.

Assistants to the Chief Inspector—no limit as to the number of these,—at \$3,000 a year.

As many associate inspectors as may be necessary,—no limit as to the number of these,—at \$10 per day and traveling expenses.

An examining and advisory committee to consist of the Commissioner of Labor and Industry, the Chief of the Bureau of Inspection of Buildings, the State Fire Marshal and four additional members to be appointed at salaries of \$10 per day and traveling expenses.

And a secretary for this committee whose salary shall be appointed and fixed by the Commissioner of Labor and Industry.

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.

125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086

KEYSTONE PHONE, MAIN 497

**BLUE
PRINTS**

IN addition to which nice, little bunch of desirable political berths, the Act provides that there "shall" be created in every city of the third class in this Commonwealth, by ordinance, a local division of building inspection to be organized as follows:

A local Chief Inspector with "such assistant inspectors, clerks and others" as may be necessary at salaries to be fixed by the authorities."

Up to this point the Act is mandatory. It next provides that there "may" be created, in boroughs and townships, bodies of the same general character "at salaries to be fixed and paid by the borough and township boards."

Every body so created, however, "shall be under the supervision of the Commissioner of Labor and Industry" and no inspector may be appointed who has not been "first qualified by examination before the advisory and examining committee" mentioned in a foregoing chapter.

* * *

WHERE a borough or township exhibits a disposition to evade the expense of a local bureau the commissioners of the county within which such recalcitrant boroughs or townships are located "shall" establish such divisions willy-nilly providing for their salaries out of the funds of the county affected.

The Commissioner of Labor and Industry is given authority under the Act to "make, alter, amend and repeal rules and regulations" to cause them to apply "to specific conditions" and to prescribe "means, methods and practices to carry into effect and enforce such provisions."

It is specifically provided that the Act shall not apply to "single, detached, private residences."

* * *

ACAREFUL reading of the provisions of the Act in detail will repay the average builder and architect who feels that he is over-regulated as things stand and is in no mood to view with complacency the saddling of new regulations—the chief aim and object of which is obviously to provide places for the hungry faithful.

* * *

WHEN is a factory not a factory and what is a corner lot and why?

A month or two back the building authorities of New York State were wrestling with the problem involved in deciding definitely just what might be regarded as a factory. After months of verbal quibbling that vexed question was defined to the satisfaction, at least of the authorities most directly concerned.

Last week Superintendent of Building Ludwig, of Manhattan Island, found

himself at some loss to decide just what is meant, for zoning restriction, by the term "a corner lot."

The question has been passed on to the Board of Appeals in an appeal of F. Burrall Hoffman, Jr., architect, in connection with a proposed new residence building for Surrogate Robert Ludlow Fowler, at 17 East 90th street. The lot, on which it is proposed to erect the buldng, backs up against a portion of the premises on which Andrew Carnegie's residence stands. The Carnegie plot, which contains two buildings but is mostly uncovered area, is at a corner and runs the full length of Fifth avenue

from 90th to 91st streets. The plot extends about 200 feet along 90th street and about 325 feet along 91st street, making the 91st street portion of the lot extend about 120 feet farther from Fifth avenue than the 90th street end.

The Building Zone Resolution does definitely specify what a corner lot is, but the Board of Appeals holds that a lot extending, as this one does, for so great a distance along the street cannot be deemed a corner lot within the meaning of the Building Zone Resolution.

And in this quiet and altogether orthodox fashion is resolved one more great and momentuous issue.

EDITORIAL NOTES

Louis Rush, architect, 130 South Fifteenth street, Philadelphia, has enlisted for service in the officers' reserve force now training at Fort Niagara. Current work of Mr. Rush's office will be handled by arrangement during his absence by Karcher & Smith, 34 South Seventeenth street.

* * *

Arthur B. Gill, architect, formerly of Sheen & Gill, of Philadelphia, has associated himself in practice with Custer & Seltzer, of Camden, N. J.

* * *

Among architects who have joined the Officers' Reserve forces training at Fort Niagara are Edwin M. Voorhees, of the Hale Building, Philadelphia, and Fred A. Muhlenberg, of Reading, Pa.

* * *

Arthur A. Heilman has opened an office at 612 Washington street, Reading, Pa., for the practice of architecture and announces that he will be pleased to receive manufacturers' samples, catalogues, etc.

* * *

For some time past the authorities in Chicago have been considering a by-law which will require all sheet metal contractors within the city to be licensed. The associations have been active in this matter and have appointed a committee to safeguard their interests. These committees will work with the end in view of having inserted in the license ordinance, clauses which will make for better conditions in the trade both from the contractors, and the customers' standpoint.

* * *

The sixth annual meeting of the Metal Branch of the National Hardware Association is to be held at the William Penn Hotel, Pittsburgh, Pa., on Friday and Saturday, June 1 and 2. With the increased activity this year and the interest aroused as a result of the advertising campaign of the Metal Club of Philadelphia, the meeting promises to be an interesting one.

W. F. Schaphorst, M. E., New York, advertising engineer and a contributor to the technical journals, has established an engineering advertising service, with offices in the Woolworth Building. He solicits business with manufacturers of high-grade engineering products.

* * *

Employers in the building trades in Cleveland whose operations were tied up for a month, first by strikes by union workers and then by lockouts declared by the contractors, have succeeded in winning an important victory for the observance of written arbitration agreements. By the terms of the settlement, disputes between workmen and the employers are first to be submitted to a committee of workmen and employers in the respective trades. Appeal may be made to a conciliation board composed of seven members of the union's council and seven members of the association, and there is to be no strike or lockout until this board has had ample time to arrive at a settlement. The agreement also contains provisions that there shall be no limitation as to the amount of work a man shall perform in a day, no restriction in delivery or use of material, except prison-made material; no restriction in the use of apprentices, and gives the employers the right to employ or discharge whoever they see fit. There was formerly an agreement between the employers and workmen in Cleveland which the Building Trades Council (union) voted to ignore, precipitating the tie-up.

* * *

No radical conditions confront us as a result of the declaration of war. There is every indication that with the floating of the new loans business activity will soar to even greater heights than have characterized the remarkable business expansion of recent months. There is every reason for optimism regarding the future of American trade. The most unfortunate thing that could possibly happen would be a period of business depres-

sion. The message of the day to the buying public is: "Be rational."—Ex.

* * *

Braemer Air Conditioning Corporation, Philadelphia, Pa., has published a circular announcing its organization. Most of the district managers, who cover the cities of Cincinnati, St. Louis, Kansas City, Indianapolis and Cleveland, have for many years represented the air conditioning department of Warren Webster & Co. The circular contains photographs of the officers, including William G. R. Braemer, president; Herbert Coward, treasurer, and H. A. Terrell, secretary. A New York office has been opened at 90 West street, with G. P. Uppington as district manager. Mr. Uppington is a graduate engineer, with eleven years' practical experience in heating, ventilating, air conditioning and sales work.

* * *

A bill has been introduced into the Senate to amend the Federal Reserve Act permitting the reinstatement of check collection charges. It will be remembered that the charge for collections on out-of-town checks was materially reduced with the enactment of the Federal Reserve bill. It is felt that the banking interests are now endeavoring to reinstate the old schedule which is more expensive to the depositor. It is suggested that a protest be filed by all those interested with their United States Senators. T. James Fernley, secretary-treasurer of the National Hardware Association of the United States, has recently sent a communication to all members requesting them to voice their protests against this amendment.

* * *

A precipitate and uncalled for check of the normal flow of money into the various customary channels, will cause an economic upheaval that will directly demoralize every unit in the great economic structure upon whose stability the very existence of the nation depends. The strength of each unit in this complex machine depends upon the maintenance of normal conditions and the unchanged status of each allied unit. The weakening of a single link affects adversely the entire chain.—Ex.

* * *

It is absolutely imperative at this time that industry of all kinds maintain its normal and steady course. This end is to be urgently sought, not only for the proper protection of American capital and labor, but also because the war levies will impose additional obligations upon citizenship, and no new situations must be created which will weaken their productive capacity.

* * *

Lawson Purdy, in an address made at Asbury Park, urged the adoption of a zoning law similar to the one now in force in New York City. A large section of the well-known pleasure place was recently destroyed by fire, and the city has an opportunity of rebuilding it along logical and orderly lines, incorporating in the new development, the most modern details of municipal planning. Commissioner Purdy urged especially the creation of a bar-

red zone for public garages, as a proper protection of property rights.

* * *

The building material market has held its own to a surprising degree in the existing crisis. Prices of practically all of the important commodities are holding firmly at the levels that have maintained for a long period. In some particular instances upward revisions have been announced and there is generally a feeling that within a short time the present conditions will be improved and that there will be a resumption of prosperity for the building industry.

* * *

One of the factors that has helped considerably in sustaining the hopes of the structural trades is the large amount of Government construction in immediate prospect. Some of this work has already been placed under contract and activities started and the balance is likely to be commenced at an early date. According to the present schedule there is almost enough of this type of work in sight to keep the trade active for some months, and it is this influence that will maintain life and interest in the building industry and material market until the general building situation is improved and activity resumed on a scale that will enable the industry to prosper.

* * *

The announcement in the forepart of this week that the Federal Government had requisitioned the total output of the steel mills of the country for the construction of an immense merchant fleet and a further statement that the lumber output and many other building commodities was likely to be commandeered in a similar manner has had a strong tendency to influence prospective builders to hold off for a more propitious time. As a matter of fact, the announcement was without stable foundation, and although it appears as though the Government would require a large percentage of the available materials for the fulfillment of its schedule, there is certain to be an adequate supply obtainable for general building purposes. Under the circumstances the building trades must not lose heart, but rather should endeavor to influence prospective builders to proceed with the contemplated operations that are so necessary to maintain the industry at its former state of efficiency.

* * *

The City of New York, Borough of Queens, is having plans prepared by the J. P. Powers Company, Boulevard, Rockaway Beach, L. I., for an incinerator plant to be built in New street, Arverne, L. I., at an estimated cost of \$100,000. The building will be of brick and reinforced concrete construction and will measure 57x38 feet. It will be two stories in height.

* * *

The tower and cupola of New York's City Hall, which was damaged by fire, will be rebuilt from plans by Grosvenor Atterbury, 26 West Forty-third street, that city, the architect who designed the decorative effects on the building and in City Hall park in honor of the visiting Commissioners. The estimated loss has been placed at \$25,000. This is the

second time that the City Hall tower has been damaged by fire. During the celebration attending the laying of the Atlantic cable in 1858, the fireworks set fire to the cupola. The new cupola was then built larger in order to put in the clock, which was destroyed recently.

* * *

W. Kerr Rainsford, architect, 665 Fifth avenue, New York, has joined the Plattsburgh contingent and will soon take up his duties there as a commissioned officer.

* * *

Edmund C. Stout, of East Orange, has been appointed architect engineer by the Prudential Insurance Company of Newark. Mr. Stout has for seventeen years been a member of the architectural firm of Hill & Stout.

* * *

B. H. Collins has joined the publicity staff of the Society for Electrical Development. Mr. Collins takes the place of Hill Griffith, first lieutenant, cavalry, Officers' Reserve Corps, who has been called into active service.

* * *

Unquestionably the building and allied trades have begun to experience the effects of war times, as have many other lines of industry. Structural activity has recently slowed down perceptibly, and while the trade as a unit is hopeful for the future there is an undercurrent of feeling evident that it will be some time before construction work is resumed on the scale that maintained a month or six weeks ago. Just previous to the declaration of war there was every indication that the building trades were destined to enjoy a most prosperous season, notwithstanding the fact that the high cost of structural materials and other important factors were exerting a tendency to hinder operations to no small degree. Since the advent of this country into the war, however, there has been a decided slump in practically all lines of construction, more particularly in the large cities, where steel is one of the most important materials. At the present writing there is but little active work in progress other than that absolutely necessary. The buildings now under construction and the majority of the new projects that are being planned are for the manufacturing and handling of munitions and war supplies, commercial operations and Government contracts for buildings and other forms of construction work called for by the preparedness program.

* * *

Just as happy as though they had all received a good big fat contract were the 200 members of the Master Builders' Exchange of Philadelphia, who were fortunate enough to be present at the annual outing and shad dinner of the Exchange, held on Thursday last at Kugler's "Old Mohican Club," on the Delaware. The midway, which rivaled that of the World's Fair, was a source of great amusement and carried many a master builder back to his boyhood days. The shad dinner, which is always a great function at the Mohican Club, was up to its standard of perfection and was enjoyed from beginning to end. The outing in every detail was a grand success and adds another one to the long list of red-letter events held by the Master Builders' Exchange.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Coaling Station and Sand House, Erie avenue yard, Tulip and Emerald streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Reinforced concrete. Owners ready for bids, due June 20th at noon.

Residence (alt.), 2022 DeLancey Place, Philadelphia. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, Hiram H. Potts, 1834 Spruce street, Philadelphia. Brick and stone, 3 stories, consists of general interior alterations. Plans about to be started.

Church, Twenty-eighth and Lehigh avenue, Philadelphia. Architects, Street & Stackhouse, 129 South Fifth street, Philadelphia. Owners, Northwest Baptist Church, care of Rev. W. Dallas Cope, 4425 North Eighteenth street, Philadelphia. Stone, 1 story, 74x90 feet, slate roof, pine floors, electric lighting. Revised plans in progress. Architects ready for bids in a week.

Office Building (add.), 222-24 Walnut street, Philadelphia. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owners, Charles E. Mather & Co., 226 Walnut street, Philadelphia. Reinforced concrete, 1 story and basement, 35x136 feet, slag roof, blower system of heating, electric lighting, tile and marble work, wood and cement floors. Plans in progress.

Store (alt.), northwest corner of Seventh and McKean streets, Philadelphia, \$2,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Warshafsky & Reznick, on premises. Brick, alteration to first floor, maple floors, electric lighting, tile and marble work, metal lath, metal bulks, metal ceilings. Plans completed. Owners taking bids, due as soon as possible. Philip Savar, 718 Snyder avenue, is figuring.

Garage, Rosewood and Bainbridge streets, Philadelphia, \$80,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner, John Daly, Jr., Inc., Finance Building, Philadelphia. Reinforced concrete, brick, terra cotta, 3 stories and basement, 74x120 feet, slag roof (steam heating, gasoline storage system reserved), cement floors, electric lighting, rolled steel sash, hollow metal skylights, fire escapes, metal lath, elevator, roof ventilators. Architects taking bids, due May 26th. P. Halbach Cont. Co., Twenty-sixth and Thompson streets; Frank G. Stewart, 1619 Sansom street; Turner Concrete Steel Co., 1713 Sansom street; John R. Wiggins Co., Otis Building; Warren-Moore Co., Commercial Trust Building; Cramp & Co., Denekla Building; Burd P. Evans, Thirteenth and Wallace streets, are figuring.

Boiler House, Robbins street and Delaware River, Philadelphia, \$60,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Twelfth and Chestnut streets. Reinforced concrete and brick, 1 story, 49x105 feet, composition roof, concrete floors, electric lighting, rolled steel sash. Plans completed. Architect will take bids.

Pipe Shop (add.), 4200 Wissahickon avenue, Philadelphia. Architect, private plans. Owners, American Pulley Co., on premises. Brick, 1 story additional, 50x50 feet, slag roof. Plans about completed. Owners will take bids in a few days.

Residence and Garage, Eleventh street and

Medary avenue, Oak Lane. Architect, Valentine B. Lee, 1003 Spruce street, Philadelphia. Owner, Willard P. Barrow, on premises. Stone, 2½ stories, 56x38 feet, slate roof (plumbing, heating and lighting fixtures reserved), oak and pine floors, electric lighting, tile work, metal lath, ornamental iron work. Architect taking revised bids, due May 24th. Thos. C. Trafford, 1613 Sansom street; Wm. J. Gruhler Co., 219 East High street, Germantown; W. John Stevens, Inc., Wyncote, Pa.; C. E. Lloyd, Jr., Eighth street and Sixty-sixth avenue, and Frank R. Hill, 6700 North Sixth street, both of Oak Lane, are figuring.

Office Building (int. alt.), 315 Arch street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Chas. E. Schmidt, 327 Arch street, Philadelphia. Consists of interior alterations to third floor, office partitions and fixtures, etc. Plans completed. Architect will take bids in a few days.

Garage, northwest corner of Seventh and Spring Garden streets, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Very Best Garage Co., care of M. Berger & Co., northeast corner of Seventh and Green streets, Philadelphia. Reinforced concrete and brick, 4 stories, 78x88x115 feet, slag roof, steam heat, electric light, rolled steel sash, hollow metal skylights, fire doors, cement and parquet floors, metal lath. Architect taking bids, due May 25th. Turner Concrete Steel Co., 1713 Sansom street; Warren-Moore & Co., Commercial Trust Building; Cramp & Co., Denekla Building; I. T. Shoemaker, 1324 Walnut street; Wills-Ludwick Co., 34 South Seventeenth street; Freund Const. Co., Bulletin Building, and George Kessler Contr. Co., Drexel Building, are figuring.

Offices and Undertaking Building (alt. and add.), 1927-29 North Broad street. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, Samuel S. Armstrong & Son, Sixteenth and Columbia avenue, Philadelphia. Brick and stone, 3 stories, 40x150 feet, consists of new front and extensive interior alterations and large rear addition. Plans in progress.

Loft Building, northwest corner Ranstead and Mole streets, Philadelphia. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Reinforced concrete, 7 stories, 50x63 feet, slag roof, steam heat, electric lighting, rolled steel sash and skylights, fire doors, cement floors, 2 elevators, waterproofing and iron stairs. Plans about completed. Architect taking sub-bids.

Office Building (alt.), Lancaster avenue and Media street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick and stone, 2 stories (plumbing reserved), steam heating, electric lighting, tile, marble and terrazzo work, hollow metal sash, fire doors, iron stairs, cement and maple floors, hollow tile, metal lath, waterproofing, wire work. Owners taking bids, due May 24th. H. H. Burrell, 206 South Quince street; F. L. Hoover & Son, 1023 Cherry street, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

Store, 5317 Germantown avenue, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Charles

Y. Scully, 5352 Germantown avenue, Philadelphia. Brick, steel and terra cotta, 2 stories and basement, 30x59x124 feet, slag roof, steam or hot water heating, electric light, tile and marble work, rolled steel sash, hollow metal skylights, pine or maple floors, metal lath, elevator. Plans about completed. Architect ready for sub-bids in a week.

Warehouse, Swanson and McKean streets, Philadelphia. Architect, Wm. C. Furber, 418 Walnut street, Philadelphia. Owners, India Refining Co., on premises. Brick (joist and concrete construction), 2 stories and basement, 50x139 feet, asphalt roof, maple and pine floors, steam heating, electric lighting, hollow metal skylights and doors, maple and pine floors, elevators. Plans about completed. Architect ready for sub-bids in a few days.

Church (add.), Twenty-seventh and Hagert streets, Philadelphia. Architect, private plans. Owners, North Penn Baptist Church, Twenty-seventh and Hagert streets, Philadelphia. Stone, 1 story, 48x84 feet, slate roof, pine floors (heating and lighting reserved). Burd P. Evans Co., Thirteenth and Wallace streets, taking sub-bids, due May 29th.

Factory, York road, above Erie avenue, Philadelphia. Architect not yet selected. Owners, Berko Bros., Randolph and Wood streets, Philadelphia. Reinforced concrete and brick, 2 stories, 200x140 feet, slag roof, cement floors, rolled steel sash. Work contemplated.

Apartment House, Redfield and Chestnut streets, Philadelphia. Architect, Arnold Eberhard, Crozer Building, Philadelphia. Owner, Charles A. Mory, 424 North Fortieth street, Philadelphia. Brick, terra cotta trim, 4 stories, 37x76 feet. Plans in progress. Architect will take bids in a month.

Garage, Philadelphia. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owner's name withheld. Brick, steel and concrete, 1 story, 194x157x116 feet (triangular) slag roof, cement floors, rolled steel sash (heating, plumbing, electric work, gasoline storage system and air pump reserved). Preliminary plans in progress. Will take bids in about three weeks.

Apartment House (alts. from Residence), Nineteenth and Mount Vernon streets. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owner, J. Reno, care of architect. Brick and concrete, 3 stories addition, 30x20 feet, slag roof, hardwood floors, electric lighting extension, galvanized iron skylights, fire tower. Plans in progress. Architect will take bids in about two weeks.

Manufacturing Building, 4080 Frankford avenue. Engineer, M. Ward Easby, Crozer Building, Philadelphia. Owners, Edgewater Finishing Co. (Hiram E. Perry), Frankford avenue and Nicetown Lane, Philadelphia. Reinforced concrete and brick, 4 stories, 157x102 feet, slag roof (heating, electric lighting reserved by owners), cement floors, rolled steel sash, hollow metal skylights, fire and kalamein doors, elevator. Engineer has received sub-bids.

Residence (alt. and add.), Wayne avenue and Johnson street. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, John D. McIlhenny, 1339 Cherry street, Philadelphia. Stone, 2½ stories, 56x38 feet, tile roof (plumbing, heating, electric lighting, elevator, oak floors reserved), pine floors, tile and terrazzo work, metal lath, waterproofing. Architect taking bids, due May

26th at 10 A. M. R. C. Ballinger & Co., 218 North Thirteenth street; H. H. Burrell, 206 South Quince street; F. B. Davis, 240 North Sixteenth street; Wm. R. Dougherty, 1610 Sansom street; Pringle Borthwick, 8018 Germantown avenue, and F. L. Hoover & Sons, 1023 Cherry street; W. John Stevens, Inc., Wynecote, Pa., are figuring.

Store Building, 817 North Broad street, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Murray White, Morris Building, Philadelphia. Brick, stone and terra cotta, 2 stories, 18x80 feet, slag roof, steam heating, electric lighting, tile work, pine floors, metal lath, metal ceilings. Plans in progress. Ready for bids in a week.

Factory, Stockley and Roberts streets, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, American Insulation Co., 67 North Second street, Philadelphia. Brick, stone and concrete, ornamental terra cotta, 2 stories, 83x130 feet (heating reserved), slag roof, steam heating, electric lighting, hollow metal skylights, cement floors, metal lath, roof ventilators. Architects taking bids, due May 31st. Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; John R. Wiggins Co., Otis Building; Warren-Moore Co., Commercial Trust Building; Frank G. Stewart, 1619 Sansom street, and Wm. Steele & Sons Co., 34 South Fifteenth street, are figuring.

Loft Building, Central Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner's name withheld. Brick and terra cotta, 3 stories and basement, 22x120 feet, slag roof, steam heating, electric lighting, hollow metal sash and skylights, fire doors, maple and cement floors, metal lath, 1 elevator. Plans completed. Architect will take bids in a few days.

Storehouse, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store Building, 812 North Broad street, Philadelphia, \$14,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, R. A. Heymann & Bro., Widener Building, Philadelphia. Brick, stone and terra cotta, 3 stories, 20x160 feet, slag roof, maple floors, pine floors, steam heating, electric lighting, tile work, metal lath, elevators, hollow metal skylights, fire doors. Contract awarded to D. Henwood, 1509 Wood street, Philadelphia.

Factory (add.), 4058 Haverford avenue, Philadelphia, \$17,500. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owners, Wm. Birmingham & Co., on premises. Brick, slow burning, 3 stories, 24x85 feet, slag roof, metal lath, rolled steel sash, maple and composition floors (plumbing, steam heating and lighting reserved). Contract awarded to Warren E. Biscoe, 3945 Ludlow street, Philadelphia.

Factory, River Road, Manayunk, Philadelphia, \$75,000. Architect, private plans. Owners, Philadelphia Paper Manufacturing Co., on premises. Reinforced concrete and brick, 1 story, 170x273 feet, slag roof, cement floors (plumbing, heating and electric work reserved by owners), rolled steel sash. Contract awarded to Barclay White & So., 1713 Sansom street, Philadelphia.

Community Garage, Germantown avenue and Venango street, \$4,000. Architect, private plans. Owner, George F. Stuempfig, 5436 Wayne avenue, Philadelphia. Brick, 1 story, 16x37 feet and 19x72 feet, slag roof, cement floors (plumbing, heating, electric work and gasoline storage system reserved). Contract awarded to H. E. Sweger, 4435 North Uber street, Philadelphia.

Coal Trestle, East of Aramingo avenue, Philadelphia, \$7,500. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners,

Philadelphia and Reading Railway, Reading Terminal, Philadelphia. Timber and concrete. Contract awarded to Brann & Stuart, Commercial Trust Building, Philadelphia.

Loft Building, southwest corner of Marshall and Cherry streets, \$85,000. Architect, Frederick Webber, 1321 Chestnut street, Philadelphia. Owner, Samuel P. Wetherill, Morris Building, Philadelphia. Brick, steel, reinforced concrete and terra cotta, 6 stories, 31x123 feet, slag roof, steam heat, electric light, metal lath, hollow metal sash, waterproofing, fire doors, elevators, cement and mosaic floors. Contract awarded to Cramp & Co., Denekla Building.

Feed House and Stock Pens (8), Second and Pike streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Feed house, brick, 1 story, 12x16 feet; stock pens, frame and timber, slag roof, wood floors, plumbing, painting. Contract awarded to Pringle Borthwick, 8018 Germantown avenue.

Residence (alt.), 106 North Thirty-fourth street, Philadelphia, \$1,500. Architect, Albert W. Dilks, 1001 Chestnut street, Philadelphia. Owner, Mrs. M. T. Zeckwer, on premises. Brick, 3 stories, slate and tin roof, pine and oak floors, carpenter work and millwork (plumbing, hot air heating and electric work reserved). Contract awarded to George W. Gardner, 511 North Fortieth street, Philadelphia.

Machine Shop, 1320-22-24 Mt. Vernon street, \$15,000. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, H. C. Gray Co., 1408 Mt. Vernon street, Philadelphia. Brick, 1 story, 48x92 feet, slag roof, cement floors, electric lighting, hollow metal skylights, roof ventilators. Contract awarded to Alex. Chambley, 243 South Tenth street, Philadelphia.

Wagon Sheds (add.), Fifty-seventh and

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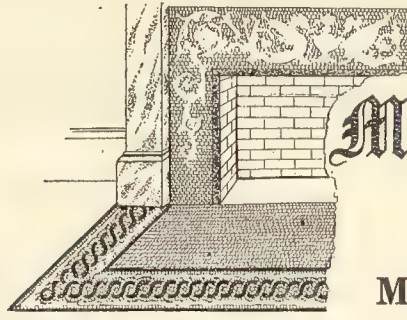


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Race streets, Philadelphia, \$5,000. Architect, private plans. Owner, W. E. Tapper, 6210 Girard avenue. Brick, 1 story, 34x48 feet and 34x80 feet, slag roof, plank floors. Contract awarded to Christian E. White Co., 511 North Sixty-third street.

Residence (alt. and add.), Seventeenth and Spruce streets, Philadelphia, \$3,000. Architects, The Chapman Decorative Co., 1608 Walnut street, Philadelphia. Owner, Dr. Harry C. Deaver, 1415 North Broad street, Philadelphia. Stone and brick, 4 story rear addition, 9x15 feet, tin roof (tile and marble work reserved), extension of present system of heating, electric lighting, cement and pine floors, hollow metal skylights. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Residence (alt.), Chestnut Hill, Pa., \$2,700. Architects, Furness, Evans & Co. and Chas. K. Willing, Franklin Bank Building. Owner, Edw. S. Dunn, 117 Bethlehem Pike, Chestnut Hill. Brick and stone, 2½ stories (slate roof, plumbing, heating and electric work reserved), pine floors, plastering, painting and pointing.

Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Residence, 28 West School House Lane, Germantown, \$19,000. Architect, private plans. Owner, Woodruff Jones, Lafayette Building, Philadelphia. Brick, 2½ stories, 38x28 feet, slate roof, hardwood floors, hot water heating, electric lighting. Contract awarded to Fred Elvidge & Son, 5522 Germantown avenue.

Residence (alt. and add.), Church Road, Overbrook, Philadelphia. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owner, A. H. Englund, on premises. Stone, additional 1 story and basement, 18x18 feet, slate roof, oak floors, metal lath. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Factory, Ruth and Somerset streets, Philadelphia, \$150,000. Architects, Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia. Owner, Orinoka Mills, on premises. Reinforced concrete and brick, 5 stories, 44x205 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, cement and maple floors, metal lath, elevators, waterproofing. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia.

Store, Dwelling, Bake Shop and Stable, northwest corner of Fitzwater and Marshall

streets, Philadelphia, \$21,000. Architects, Miligan & Pierson, 520 Walnut street, Philadelphia. Owner, C. L. Villetti, 633 Fitzwater street, Philadelphia. Brick, 2 and 3 stories, 40x100 feet, slag roof, hot water heating, electric lighting, tile work, hollow metal skylights, flush bulks, pine and cement floors, metal lath, 1 elevator, stable hardware, metal ceilings (plumbing and lighting fixtures reserved). Contract awarded to Tony Bressi, 702 South Sixth street, Philadelphia.

Factory and Plating Shop, Stenton avenue, Wayne Junction, \$90,000. Engineer, Kern Ddge, Morris Building, Philadelphia. Owners, American Metal Works, Armat and Heiskell streets, Germantown. Factory, reinforced concrete, 2 stories, 60x320 feet; plating shop, brick, 1 story, 60x60 feet, slag roof, cement and maple floors (elevators, electric work, plumbing and sprinklers reserved), rolled steel sash, fire doors, metal lath, waterproofing. Contract awarded to Roydhouse-Arey Co., 112 North Broad street, Philadelphia.

Garage, 6350 Woodbine avenue, \$2,500. Architect, private plans. Owner, P. J. Whelan, on premises. Brick, 1 story, 20x22 feet, shingle roof, cement floors (heating, lighting and plumbing reserved). Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

PENNSYLVANIA

Construction News

Residence, Kutztown, Pa., \$9,000. Architect, D. M. Rothenberger, 140 North Queen street, Lancaster, Pa. Owner, Walter C. C. Snyder, Kutztown, Pa. Brick, 2½ stories, 28x66 feet, slate and tin roof, parquet floors, electric lighting. Owner taking sub-bids.

Church and Sunday School, Bern Township, Pa., \$25,000. Architect, D. M. Rothenberger, Lancaster, Pa. Owners, Bern Union and Luth-

eran Reformed Congregation, Bern Township, Pa. Brick and stone, 1 story, 72x85 feet, slate roof, hot air heating, electric lighting, tile work, yellow pine floors. Plans in progress.

Church (alt. and add.), York, Pa. Architect, J. A. Dempwolf, York, Pa. Owners, St. Mark's Evangelical Lutheran Church, York, Pa. Brick and frame, slate roof, steam heating. Plans about to be started.

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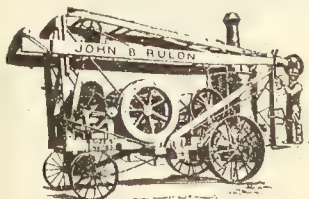


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PHILADELPHIA, PA.

Residence, Lancaster, Pa. Architect, Melvern R. Evans, Lancaster, Pa. Owner, Mrs. S. E. Bowers, Lancaster, Pa. Brick, 2½ stories, 28x46 feet, slate roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

Laundry Building, Chester, Pa. Architect, Wallace E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Troy Laundry Co., Second and Edward streets, Chester, Pa. Brick, 1 and 2 stories, 130x60 feet, slag roof (heating and plumbing reserved), cement and pine floors, electric lighting, rolled steel sash, hollow metal skylights, metal lath, elevators. Architects taking bids, due May 24th. Freund Const. Co., Bulletin Building; Hughes-Foulkrod Co., Commonwealth Building; Hogg Cons. Co., 1634 Sansom street, Philadelphia, are figuring.

Sewage Disposal System, New Bloomfield, Pa. Engineers, Harrison, Mertz & Emlen, Inc., Commercial Trust Building, Philadelphia. Owners, Carson Long Institute, Theo. K. Long, New Bloomfield, Pa. Reinforced concrete tank, terra cotta pipe, drain tile, concrete dosing and distribution chambers. Engineers ready for sub-bids.

Residence, Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Percy L. Neal, southeast corner of Sixteenth and Master streets, Philadelphia. Hollow tile and plaster, 32x102 feet, wing 20x35 feet, slate roof, hot water heating, electric lighting, hardwood floors, elevator. Plans in progress.

Garage, Hampton Road, Rydal, Pa. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Walter E. Hering (Globe Ticket Co.), 112 North Twelfth street, Philadelphia. Stone, brick and stucco or brick, half timber and rough cast, 1½ stories, 25x39 feet, tile roof (plumbing, heating, electric work and fixtures reserved), cement and pine floors, gasoline storage system. Architects have received bids.

School, Springfield, Delaware County, Pa. Architect, Newton Flounders, Media, Pa. Owners, School Board of Springfield Township, A. A. Ackerman, secretary of School Board, Morton, Pa. Stone and brick, 2 stories, 90x36 feet, slate roof (plumbing, heating, lighting, ventilating, separate bids), cement and maple floors, metal lath, ornamental iron work. Owners taking bids, due June 1st. James B. Flounders, 1329 Arch street, Philadelphia, is figuring.

Farm House (alt. and add.), Marple Township, Delaware County, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Norman Cantrell, Wynnewood Road, Ardmore, Pa. Stone and brick, 2 stories, 18x17 feet, shingle roof, oak and pine floors (plumbing, lighting, heating not decided, reserved), tile work, metal lath. Architects have received bids.

School, Locust Gap, Northumberland County, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education of the School District of Mt. Carmel

Township, Northumberland County, Pa. Brick and stone, 2 stories and basement, 79x139 feet, slate or asbestos shingle roof, maple, gum, pine, cement and asphalt floors (steam heating, ventilating, plumbing, electric work, tile and marble work, hollow metal skylights, kalamein doors, metal lath, enameled and tapestry brick, safety treads, roof ventilators, metal window guards, metal ceilings, damp-proofing. Owners have received bids.

School, Locust Dale, Schuylkill County, Pa. Architect, Michael J. Flynn, Mt. Carmel, Pa. Owners, School District of Cunningham Township, Schuylkill County, Pa. Brick and stone, 1 story and basement, 72x82 feet, slate roof, cement and pine floors (heating, plumbing and electric work reserved), metal lath, safety treads, kalamein doors. Owners taking bids.

Residence, York, Pa., \$60,000. Architect, John A. Dempwolf, Centre Square, York, Pa. Owner, R. W. Emerton, York, Pa. Stone, 2½ stories, 30x50 feet, hardwood floors, electric lighting, tile and marble work. Owner taking sub-bids.

Parsonage, Bersville, Pa. Architect, D. M. Rothernerger, Lancaster, Pa. Owners, St. Thomas' Reformed Church, Rev. Amandus Leidy, Bersville, Pa. Brick and stone, 2½ stories, slate and tin roof, hot air heating, combination lighting, tile work, hardwood floors. Owners are taking sub-bids.

Residence, King of Prussia, Montgomery County, Pa. Architects, Stearns, Woodnutt & Schmoll, Stephen Girard Building. Owner, L. R. Frear, care of architects. Stone and frame, 2½ stories, 45x35 feet, shingle roof (plumbing, electric lighting and hot water heating reserved), hardwood floors, tile work. Architects taking bids, due May 23rd. H. M. Alderfer and Wm. Schaffner both of Norristown, Pa.; George L. Croll, Rosemont, Pa., and Jos. H. McGuire, Wayne, Pa., are figuring.

Twin Bungalow, Dauberville, Pa. Architect, C. J. Young, Reading, Pa. Owners, Ebling & Crust, Dauberville, Pa. Brick, 1½ stories, 28x45 feet, slate roof, hot water heating, electric lighting, yellow pine floors. Owners taking sub-bids.

Store and Apartment House, Lebanon, Pa. Architect, C. J. Young, Reading, Pa. Owner, Harry Wolfson, Lebanon, Pa. Brick, 3 stories, 30x100 feet, slag roof, city steam heating, electric lighting, metal lath, hardwood floors. Plans completed. Owner ready for bids.

Garage and Apartments (alt. and add.), Reading, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owner, Mr. Bausher, Reading, Pa. Brick, 3 stories. Plans in progress.

Residence, Pine Grove, Pa. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owner, H. O. Gensemer, Pine Grove, Pa. Frame and stucco, 2½ stories, 32x90 feet, tile roof, hot water heating, electric lighting, tile work, hardwood floors. Architect taking bids, due May 26th. Charles Schlegel, Reading, Pa.; Gordon Nagle, C. Messersmith and O. J. Argood, all of Pottsville, Pa.; J. H. Griner, Leb-

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**CONCRETE
MIXERS**

anon, Pa., and Charles Battoy, Williamstown, Pa., are figuring.

Residence, East King street, Lancaster, Pa. Architect, Frank J. Everts, Woolworth Building, Lancaster, Pa. Owner, Chas. Demuth, East King street, Lancaster, Pa. General interior alterations, hardwood floors, tile work. Architect taking bids, due as soon as possible. W. H. Flick and Samuel Bally, both of Lancaster, Pa., are figuring.

Residences (5), Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, H. A. Mettfett, Lancaster, Pa. Brick, 3 stories, 17x60 feet, tin roof, hot air heating, electric lighting, yellow pine floors. Architect ready for bids.

Church, Drexel Hill, Pa. Architect, private plans. Owners, Presbyterian Church, Drexel Hill, Pa. Stone, 1 story and basement, 28x74 feet, and 2 wings, 19x27 feet and 15x15 feet, slate roof, pine floors, heating not decided, electric lighting. Standard Const. Co., 1713 Sansom street, Philadelphia, taking sub-bids, due May 25th.

Residences (76) and Stores (2), Darby, Pa. Architects, Milligan & Pierson, 430 Walnut street, Philadelphia. Owner, R. J. Aikins, 1414 South Penn Square, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heating, hardwood floors, electric lighting. Owner taking sub-bids.

Farmer's Cottage, Whitmarsh, Pa. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Rollin Norris, care of U. G. I. Co., Broad and Arch streets, Philadelphia. Frame and clapboard, 2 stories, 46x17 feet, shingle roof, pine floors (heating and lighting reserved). Revised plans in progress.

Residence, Flourtown, Pa. Architect, Genaah Jordan, Coopersburg, Pa. Owner, H. L. Barnes, Flourtown, Pa. Stone, 3 stories, 40x80 feet, irregular, slate roof, reinforced concrete porches, heating not decided, combination lighting, tile work, cut stone. Owner has received bids.

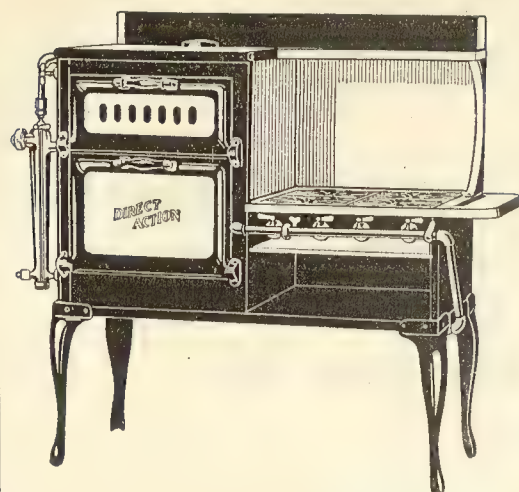
Sewage Disposal System, Quincy, Pa. Engineers, Harrison, Mertz & Emlin, Inc., Commercial Trust Building, Philadelphia. Owners, United Brethren Orphanage and Home, superintendent, H. J. Kitzmiller, Quincy, Pa. Concrete imhoff tank, terra cotta sewers, sprinkling filter, resettling basins, disinfection house. Engineers ready for sub-bids.

Residence (int. and ext. alts.), West Bell Mills Road, Chestnut Hill, Pa. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Daniel H. Farr, 1626 Walnut street, Philadelphia. Stone and plaster, 3 stories, tin roof, plumbing, electric lighting, hardwood floors. Plans about completed. Architects will take bids in a week.

Residence (alt. and add.), Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, J. Fred Fisher, Lancaster, Pa. Brick, 3 stories, 84x60 feet, slag and tin roof, hot water heating, hardwood floors, electric lighting. Revised plans in progress.

Garage, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, J. Fred Fisher, Lancaster, Pa. Brick, 2 stories, 42x46 feet, slag roof, hot water heating, electric lighting, cement and yellow pine floors, elevator, gasoline storage system. Architect taking bids. W. H. Flick and Samuel Bally, both of Lancaster, Pa., are figuring.

Hotel, Third and Walnut streets, Harrisburg, Pa., \$1,000,000. Architects, associated, W. L. Stoddart, 9 East Fortieth street, New York City, and Esenwein & Johnson, Buffalo, N. Y. Reinforced concrete, terra cotta and stone, 12 stories, 104x130 feet, composition



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roof, steam heat, electric light, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal skylights, fire, kalamein and hollow metal doors, dampproofing and waterproofing, fire escapes, ornamental iron work, maple, cement and pine floors, hollow tile, metal lath, elevators, roof ventilators, metal window guards, wire work. Revised plans in progress. Will take bids in about two weeks.

Residences (2), Drexel Hill, Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, Louis Magaziner and Victor Eberhard, 603 Chestnut street, Philadelphia. Stone, frame and stucco, 2 stories, 28x30 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Owners taking bids, due May 26th. Lam Building Co., 1001 Wood street; Julius Solomon, 1828 North Franklin street, and Harry Koch, Drexel Hill, Pa., are figuring.

Service Building, Allentown, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Autocar Company, Ardmore, Pa. Brick and steel, 2 stories, 50x60 feet (gasoline storage system reserved), slag roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, concrete and pine floors. Architect taking bids, due May 25th. The Driscoll Co., Stock Exchange Building, Philadelphia, is figuring.

Sales Station, Garage, Boiler Room, Office and Platform, Llanerch, Pa. Architect, private plans. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Stone, concrete, terra cotta, tile and brick, slag roof, pine and concrete floors, 1 story, 70x26 feet, 14x10 feet, 21x17 feet, 38x20 feet, steam heating, electric lighting, tile work, hollow metal sash and doors, fire doors, metal lath, roof ventilators, waterproofing, wire work, ornamental iron work. Owners taking revised bids, due May 26th. Eugene Tourison, 1001 Chestnut street; E. E. Hollenback, Inc., 1804 Brandywine street; Metzger & Fischer, Otis Building; Wark-Yardley Co., 1737 Filbert street, are figuring.

Pattern Storage Building, Front street, Steelton, Pa. Architect, private plans. Owners, Bethlehem Steel Co., South Bethlehem, Pa. Reinforced concrete, 4 stories, 60x400 feet, slag roof, concrete floors (elevator reserved), fire doors, iron stairs, rolling steel doors, iron stairs. Owners, care of Mr. Turner, Steelton, Pa., taking bids, due May 25th. Pomeroy Const. Co., 1609 Ranstead street, Philadelphia, is figuring.

School, Camp Curtin, Sixth and Woodbine streets, Harrisburg, Pa. Architect, M. I. Kast, 222 Market street, Harrisburg, Pa. Owners, City of Harrisburg, Pa., care of School Board,

121 Chestnut street. Plans about to be started. Too early for details.

Girls' High School, East Harrisburg, Pa. Architect, W. S. Ritter, Huntington, W. Va. Owners, City of Harrisburg, care of School Board, 121 Chestnut street. Plans about to be started. Too early for details.

Girls' High School (alt. and add.), Forster and Capital streets, Harrisburg, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, City of Harrisburg, School Board, 121 Chestnut street. Plans about to be started. Too early for details.

Schools (2), Nineteenth and Chestnut sts. and Walnut and Fifth streets, Harrisburg, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, City of Harrisburg, care of School Board, 121 Chestnut st. Plans about to be started. Too early for details.

Store and Apartment (alt. and add.), 25 S. Third street, Harrisburg, Pa. Architect, Geo. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, H. Kaylor, 25 South Third street, Harrisburg, Pa. Brick, 3 stories, 20x30 feet, slag roof, City plant heating, electric lighting, tile and marble work, oak floors. Plans in progress.

School (alt. and add.), Rutherford Heights, Pa. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, School Board of Swatara, Township of Swatara, Pa. Brick, 1 story, 40x67 feet, composition roof, hot air heating, electric lighting, pine floors. Architect ready for bids in one week.

Factory, 435 South Eleventh street, Harrisburg, Pa., \$7,000. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, D. Bacon Co., on premises. Brick, 2 stories, 60x80 feet, slag roof, steam heating, electric lighting, cement and pine floors, Otis elevators, hollow metal sash, roof ventilators, waterproofing and dampproofing. Architect sub-letting all contracts.

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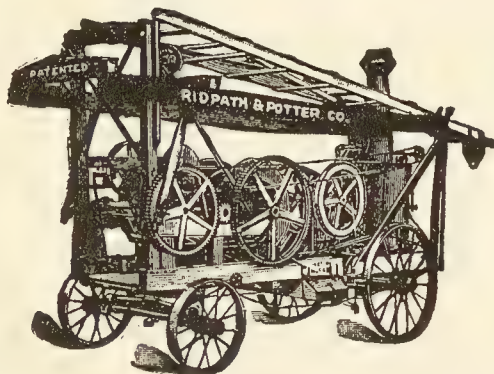
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PENNSYLVANIA Contracts Awarded

Bank and Office Building, Coatesville, Pa., \$110,000. Architect, A. A. Ritcher, Sixth and Court streets, Reading, Pa. Owners, National Bank of Chester Valley, Coatesville, Pa. Stone, brick and concrete, 1 story, composition roof, vapor heat, electric light, metal lath and sash, waterproofing and dampproofing, fire doors, ventilators, tile and marble work, metal window guards, hardwood and tile floors, metal lockers, weather strips, cabinet work, terrazzo work. Contract awarded to W. J. Elliott, Coatesville, Pa.

Residence (add.), Holicong, Bucks County, Pa., \$4,000. Architect, private plans. Owner, Harold Gillingham, 432 West Price street, Germantown. Frame and stucco, 2½ stories, 23x31 feet, shingle roof, gas lighting, tile work, plumbing. Contract awarded to Wm. C. Wright, 22 Harvey street, Germantown.

Bridges (2), north and south of Deiblers, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Reinforced concrete and steel, double track concrete box structure. Contract for concrete work awarded to Allentown Const. Co., Allentown, Pa.; waterproofing to H. W. Johns-Manville Co., 214 North Broad street, Philadelphia.

Tenement House and Farm House (alt. and add.), Haverford, Pa., \$8,000. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owners, Haverford College, Haverford, Pa. Hollow tile and plaster, 2 story addition, 17x15 feet and 15x34 feet, shingle roof, pine floors, millwork, plastering. Contract awarded to Herbert L. Walton, Moylan, Pa.

Building No. 37, Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Carpenter Steel Works, Reading, Pa. Corrugated iron, 1 story, 50x75 feet. Contract awarded

to Daniel H. Hunter, Reading, Pa.

Mausoleum, Hanover, Pa., \$20,000. Architect, Edward Leber, York, Pa. Owners, York Mausoleum Co., J. R. Smith, Easton, Pa. Marble, granite and bronze, 1 story, 44x28 feet, tile roof, marble floors, tile work. Contract awarded to H. S. Siefert, P. O. Box 101, Harrisburg, Pa.

Residence, Lewistown, Pa. Architect, John B. Hamme, York, Pa. Owner, J. B. Selheimer, Lewistown, Pa. Brick and stone, 2½ stories, 50x40 feet, slate roof, vapor heating, electric lighting, tile and marble work, hardwood floors, metal weather strips. Contract awarded to W. D. Steinbach Sons, Lewistown, Pa.

Residence (alt. and add.), East Orange st., Lancaster, Pa. Architect, Frank J. Everts, Woolworth Building, Lancaster, Pa. Owner, J. Strang, on premises. Brick, 2 stories, 21x25 feet, slag roof, electric lighting, hardwood floors. Contract awarded to W. H. Flick, Lancaster, Pa.

Residence, Shippensburg, Pa., \$10,000. Architect, Robert Stair, York, Pa. Owner, J. S. Omwake, Shippensburg, Pa. Brick, 2½ stories, slate roof, steam heating, electric light, hardwood floors. Contract awarded to W. A. Zern, Shippensburg, Pa.

Barn, Media, Pa. Architect, Frederick Webber, Morris Building, Philadelphia. Owner, Samuel J. Henderson, Morris Building, Philadelphia. Stone, 1 and 2 stories, 70x34 feet and 13x17 feet, and 42x17 feet, slate and slag roof (stone work and electric fixtures reserved), cement and pine floors, electric lighting, roof ventilators. Contract awarded to Clare Baker, Lima, Pa.

Post Office, Media, Pa., \$48,700. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washing-

ton, D. C. Stone, brick, concrete and steel, 2 stories, 70x55 feet, composition roof, maple floors, tile and terrazzo work, hollow metal sash, ornamental iron work, metal lath, roof ventilators, metal window guards and weather strips, dampproofing, wire work. Contract awarded to H. W. Fissell & Co., Marbridge Building, New York City.

Store (alt. and add.), 12 South Hanover st., Carlisle, Pa., \$6,000. Architect, C. Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owners, Bowman & Co., 314 Market street, Harrisburg, Pa. Marquise (2), 7x12 feet, hardwood floors, electric lighting, tile and terrazzo work. Contract awarded to James Porter, Carlisle, Pa.

Office Building, Millersburg, Pa., \$8,000. Architect, T. H. Hamilton, 11 North Second street, Harrisburg, Pa. Owners, Brubaker Bros., Centre street, Millersburg, Pa. Brick, 1 story, 40x60 feet and 25x50 feet, composition roof, oak floors. Contract awarded to H. Helwig, Millersburg, Pa.

Passenger Station, Merion, Pa., \$23,000. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and plaster, 1 story, 38x13 feet and 9x16 feet, slate roof, steam heat, electric light, metal lath, maple floors, terrazzo work, marble work, metal window guards (cement, demolition, paving, grading, platforms and P. O. fixtures reserved). Contract awarded to Chas. C. Pace, Merion, Pa.

Garage, Wynnefield, Pa., \$2,500. Architect, private plans. Owner, A. C. Borner, 3710 N. Carlisle street, Philadelphia. Stone, 1½ stories, 19x22 feet, slate roof, cement floors, electric lighting, metal lath. Contract awarded to J. Paul Emrey, North Wynnefield, Pa.

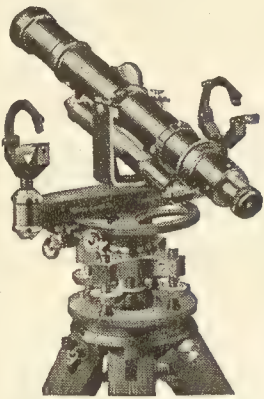
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NEW JERSEY Construction News

Residence, Strand and Adriatic avenues, Atlantic City, \$9,000. Architect, L. L. Headley, Guarantee Trust Building, Atlantic City. Owners, Mr. and Mrs. Robert Lane, care of architect. Brick, 2 stories, 32x60 feet, slag roof, heating undecided, gas and electric lighting, tile work, yellow pine floors. Plans in progress.

Garage, Pleasantville, N. J. Architect, Wm. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, S. E. Piercy, Pleasantville, N. J. Hollow tile, 1 story, 50x65 feet, slag roof (heating, lighting fixtures and gasoline storgae system reserved), slag roof, concrete floors, hot water heating, electric lighting. Owner taking bids, due in a few days. P. J. Hannum, Atlantic City, N. J., is figuring.

Apartment House, Atlantic City, N. J., \$70,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Mrs. Rose and Mary A. Flynn, North Carolina avenue, Atlantic City, N. J. Brick, 5 stories, 131x26 feet, slag roof, hot water heating, electric lighting, tile and marble work, galvanized iron skylights, hardwood floors, hollow tile, metal lath, elevators, roof ventilators, waterproofing. Architect taking bids, due in a few days. P. J. Hannum, Atlantic City, N. J., is figuring.

Apartment Building, Boardwalk, between Kingston and Berkley avenues, Atlantic City, N. J., \$800,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, A. M. Heston, 26 South Iowa avenue, Atlantic City, N. J. Brick, steel and concrete, 8 stories, 95x210 feet, slag roof, concrete floors, high pressure steam heating, combination lighting, tile and marble work, elevators, concrete floors, fire doors, fire escapes, iron stairs. Plans completed.

Manufacturing Building, Beverly, N. J. Architect, John G. Brown, Witherspoon Building, Philadelphia. Owners, Wall Rope Works, Beverly, N. J. Brick, 1 story, 93x50 feet, slag roof, cement floors (heating and lighting reserved by owners). Plans completed. Owners ready for bids.

Draw Bridge, Salem, N. J. Engineers, Stern & Silverman, Land Title Building, Philadelphia. Owners, Salem and Pennsgrove Traction Co., Pennsgrove, N. J. Timber, 400 feet long. Engineers taking bids, due as soon as possible. J. A. Bader, Wilmington, Del., is figuring.

Bungalow, Merchantville, N. J., \$5,000. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner's name withheld. Brick, 2 stories. Plans in progress. Too early for details.

Passenger Station and Shelter, Plainsboro,

N. J. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, stone trim, 1 story, 53x20 feet and 1 story, 42x10 feet, slate roofs; cement and pine floors, marble work, steam heating, electric lighting, metal lath, metal window guards, ornamental iron work. Owners, care of R. V. Massey, superintendent, Jersey City, N. J., taking bids, due May 31st. J. Sims Wilson Co., 1125 Brown street; A. L. Carhart, Hale Building, and Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Fire Station, Vineland, N. J. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, office of Commissioners, City Hall, Vineland, N. J. Brick, 2 stories, 29x70 feet (hot water heating reserved), Barrett roof, electric lighting, concrete and pine floors. Revised plans in progress.

School, Rancocas, N. J., \$6,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Willingboro Township, Burlington County, N. J. Frame, 1 story, 40x75 feet, shingle roof, North Carolina pine floors. Architects taking bids. J. E. Kolster, Beverly, N. J.; Peterson Const. Co., Clayton, N. J.; Hugh B. Miller, Edgewater Park, N. J., and Evans Const. Co., 9 South Eighteenth street, Philadelphia, are figuring.

Hotel, Avalon, N. J., \$15,000. Architects, Moffett & Stewart, Inc., 30 North Third st., Camden, N. J. Owner's name withheld. Frame, 2 stories and basement, 90x40 feet; wing, 20x40 feet, shingle roof, hot water heating, combination lighting, North Carolina pine floors, metal lath, roof ventilators. Architects taking bids, due May 24th. Peterson Const. Co., Clayton, N. J.; Evans Const. Co., 9 South Eighteenth street, Philadelphia; Wm. Wriford, 525 Market street, Camden, N. J.; J. Isenberg and L. Wentzell, both of Avalon, N. J., are figuring.

School, Clementon Heights, N. J., \$5,000. Architect, Thos. Stevens, Camden, N. J. Owners, School Board of Clementon Township, Clementon, N. J. Frame, 1 story, 34x50 feet, shingle roof, yellow pine floors, Smith system of heating and ventilating, metal lath. Owners have received bids.

Residence (add.) and Garage, Vineland, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Evan E. Kimble, Vineland, N. J. Brick, hollow tile, half timber, Porte-cochere addition to residence; garage, 1½ stories, 29x24 feet, tile roof, cement and pine floors, hot water heating, electric

The Answer

"Yes, Mr. Builder," said the prospective house buyer, "your house looks fairly complete. But what provision have you made for giving me quick heat in the mornings and evenings of the late Spring and early Fall when it isn't practical to have the house heating system going?"

"We've provided the only practical and economical method," replied the up-to-date builder. "You'll find one of these Base-board Gas Outlets in each room, to which you can connect a gas heating stove quickly and have the desired heat immediately."

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lighting. Revised plans in progress.

Caden County Almshouse (alt. and add.), Asyla, N. J. Architect, Thos. Stephen, Camden, N. J. Owners, Camden county Board of Freeholders, care of architect. Brick, 3 stories and basement, 130x100 feet, composition and hardwood floors, steam heating, electric lighting, metal lath, safety treads. Plans in progress.

Garage, Camden, N. J., \$11,000. Architects, Custer & Seltzer, Third and Market streets, Camden, N. J. Owners, Wm. E. Wolff Co., care of architects. Brick, 1 and 2 stories, 56x100 feet, slag roof (heating, hot water, electric lighting, elevator and gasoline storage system reserved), wood floors. Owner is taking sub-bids.

Bank, Main and Ferry streets, South River, N. J. Architect, A. Merchant, 363 George street, New Brunswick, N. J. Owners, The South River Ttrust Co., South River, N. J. Marble and brick, 1 story and mezzanine, 33x83 feet, slag roof (heat, lighting and plumbing reserved), pine floors, tile, marble and terrazzo work, hollow metal skylights, fire doors, bank fixtures, roof ventilators, iron stairs, ornamental iron work, hollow tile, metal lath, metal window guards, wire work. Architect taking bids, due May 31st. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, is figuring.

Manufacturing Plant, near Philadelphia, Pa., \$150,000. Architect, J. Osborne Hunt, 114 Montgomery street, Trenton, N. J. Owners, Pierce-Arrow Tire and Manufacturing Co., Germantown, Pa. Too early for details.

Residences (4), West End avenue, Trenton, N. J. Architect, private plans. Owner, Geo. A. Smith, 213 West End avenue, Trenton, N. J. Brick, 2½ stories, 28x44 feet, slate roof, steam heating, hardwood floors and yellow pine floors, electric lighting. Owner will build.

School Houses (3), High School and First Ward School and Third Ward School, Lambertville, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Lam-

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

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Specially designed to conform with the architecture of the residence. Special quotations on heating and lighting Inclosed Porches.

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1927 W. Montgomery Avenue, Philadelphia, Pa.

bertville, Lambertville, N. J. Consists of general interior alterations, tile work, new toilet rooms. Plans in progress.

School (add.), Masonville, Burlington County, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Masonville, Masonville, N. J. Concrete block, 1 story, 2 class rooms. Plans in progress.

Residence, Washington Crossing, N. J. Architects, W. W. Slack & Son, American Mechanics' Building, Trenton, N. J. Owner, Frank W. Harper, Trenton, N. J. Frame, 2

stories, 22x41 feet, slate roof (heating and lighting not decided), yellow pine floors. Plans in progress.

Garage and Library, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owner, Hugh D. Trout, 11 Belmont avenue, Trenton, N. J. Hollow tile and stucco, 2 stories, 22x23 feet, slate roof, hot air heating, electric lighting, cement floors. Architects taking bids, due May 23rd. Samuel Wiley, Carl Poinsett, Fred Parker and Ed. La Rue, all of Trenton, N. J., are figuring.

NEW JERSEY

Contracts Awarded

Municipal Pier, Somer's Point, N. J., \$3,000. Architect, E. M. Henderer, Sheen Building, Atlantic City, N. J. Owners, City of Somer's Point, Somer's Point, N. J. Frame, auditorium 24x40 feet and approach 200x8 feet, composition roof, yellow pine floors, electric lighting. Contract awarded to Atlantic Const. Co., Atlantic City, N. J.

Residence, Atlantic City, N. J. Architect, private plans. Owner, Edward C. Clark, 6939 Paschall avenue, Philadelphia. Shingle, 2½ stories, 42x24 feet, slate roof (heating reserved), electric lighting, yellow pine floors. Contract awarded to Harry Scull, Guarantee Trust Building, Atlantic City, N. J.

Bridge (superstructure), over Asylum Road,

west of Trenton Junction, N. J. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Steel and concrete, 2 span plate girder, waterproofing. Contract awarded to McClintic-Marshall Co., Philadelphia, Pa.

Store and Residence, Cass and Adeline sts., Trenton, N. J., \$6,000. Architect, W. B. Thines, Commonwealth Building, Trenton, N. J. Owner, Louis A. Lintner, in premises. Brick, 2 stories and basement, 53x50 feet, slag roof, hot water heating, combination lighting, metal lath, hardwood floors, tile and marble work. Contract awarded to John Goldenbaum, Trenton, N. J.

MARYLAND

Construction News

Dressing Room, Baltimore, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Owners will take bids, due June 15th at 3 P. M.

Warehouse, Leadenhall and West streets, Baltimore, \$50,000. Architect, private plans. Owners, F. X. Ganter Co., Sharp and Ostend streets, Baltimore. Brick, 5 stories, 56x156 feet, slag roof, electric lighting, iron work, plumbing. Plans in progress.

Bungalow, Hill Top Park, Md., \$8,000. Architect, Oliver B. Wight, Munsey Building, Philadelphia. Owner, H. A. Slagel, care of Webb & White, Title Building, Baltimore. Hollow tile and stucco, 2½ stories, slate roof, electric lighting, heating, plumbing, painting,

hardwood floors, tile work. Owner will take sub-bids.

Dairy and Stable Building, 1048-52 Granby street, Baltimore, Md. Architect, George R. Callis, 218 East Lexington street, Baltimore. Owners, Snesil Dairy Co., on premises. Brick and steel and concrete, 2 stories, 85x100 feet, slag roof, skylights, waterproofing (electric wiring reserved), iron work, plastering, painting, plumbing, hardware. Architect taking bids, due May 52th at 3 P. M. E. E. Thompson, 1803 Harford avenue; Herbert & Prodoehl, Munsey Building; J. H. Smith, 1426 Light street; E. Eyring & Son, 800 South Third avenue; Consolidated Eng. Co., Calvert Building; P. J. Cushen, 217 St. Paul street; Singer-Pentz Co., Equitable Building; Henry

L. Maas, 1119 Ensor street; Frank Merin, 1921 East Baltimore street; Louis Ulman, 418 Asquith street, all of Baltimore, Md., are figuring.

Residence and Garage, Lake Drive, Baltimore, Md., \$30,000. Architects, Smith & May, Calvert Building, Baltimore. Owner, A. Eisenberg, 213 West Lexington street, Baltimore. Brick, 2½ stories, terra cotta trim, slate, slag and tile roof, reinforced concrete work, stucco, limestone, marble and tile floors, composition floors (electric lighting and heating reserved by architects). Architects taking bids, due May 28th. Edw. Brady & Son, 1109 Cathedral street; G. Walter Tovell, Eutaw and McCulloh street; Gladfelter & Chambers, Thirty-sixth street and Roland avenue; Charles L. Stockhausen Co., Gay and Water streets; John Hiltz & Son, 3 Clay street; B. F. Bennett Building Co., 123 South Howard street, are figuring.

Garage, rear 632 Baker street, Baltimore. Architect, Stanislaus Russell, 2900 Clifton avenue, Baltimore. Owner, A. S. Horner, 632 Baker street, Baltimore. Brick, 1 story, 18x94 feet, slag roof, concrete floor, electric lighting. Owner will take sub-bids.

Maryland

Contracts Awarded

Building, Hughes and Covington streets, Baltimore, \$2,500. Architect, H. F. Doeleman, American Building, Baltimore. Owners, Chesapeake Marine Railway Co., southeast corner of Philpot and Point, Baltimore. Brick, 2 stories, slag roof, iron work, plastering and painting. Contract awarded to S. T. Williams, 223 North Calvert street, Baltimore.

Calf Barn, Cockeysville, Md. Architects, Mottu & White, 322 North Charles street, Baltimore. Owner, Mrs. Emily McLane Merryman, on premises. Frame, 1 and 2 stories, 26x60 feet, composition roof, skylights, ventilators, concrete and cork tile floors. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore.

Residence, Park Grove, Baltimore County, Md. Architect, private plans. Owner, John K. Culver, Munsey Building, Baltimore. Frame, 2 stories, 22x30 feet, slate roof, hot water heating, electric lighting, plastering, painting and plumbing. Contract awarded to Dippell & Lauer, 25 North Ellwood avenue, Baltimore.

Store Building (alts.) and Garage, 1812 N. Charles street. Architect, Fred E. Beall, 306 St. Paul street, Baltimore. Owners, Montrose Building Association, 1405 North Charles st., Baltimore. New store front, marble work; garage, 1 story, brick, 18x77 feet, slag roof, concrete floor, electric lighting, tile work. Contract awarded to W. T. Childs, 14 West Twentieth street, Baltimore.

Miscellaneous Construction News

Residence, Winter Park, Fla. Architect, Chas. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Fletcher B. Holmes, Woodbury, N. J. Frame, 2½ stories, 26x52 feet, shingle roof, hardwood floors, electric lighting. Plans about completed.

Store and Office Building (alt. and add.), Ninth and Tatnall streets, Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owner, Alfred B.

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Moore, Wilmington, Del. Brick, 3 stories, 40x25 feet, slag roof, yellow pine and maple floors, store fixtures. Plans in progress.

Library, Wilmington, Del. Architect not selected. Owners, Citizens of Wilmington, John Nields, Equitable Building, Wilmington, Del. Stone, 200x100 feet. Work contemplated.

Residence (alt. and add.), Tenth and Jackson streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, P. A. Horty, on premises. Brick, 2½ stories, 20x30 feet, electric lighting, tile work. Plans in progress.

Machine Shop and Foundry Building, Toledo, Ohio. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Toledo Machine and Tool Co., Toledo, Ohio. Brick, steel and concrete, 1 story. Preliminary plans in progress. Details not decided.

Water Supply System, Baddeck, Nova Scotia. Engineers, Harrison, Mertz & Emlen, Inc., Commercial Trust Building, Philadelphia. Owner's name withheld. Reinforced concrete reservoir, waterproofing, iron pipe lines. Plans completed. Engineers ready for sub-bids.

Miscellaneous Contracts Awarded

Automat Cafe (alt.), 386 Broadway, New York City, \$20,000. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Horn & Hardard Baking Co., 600 West Fiftieth street, New York City. Stone and brick, alteration to first floor, heat not decided, electric light, tile and marble work, metal lath, metal ceilings, ornamental iron work. Contract awarded to Harry R. Rust, 724 Ludlow street, Philadelphia.

Hospital, Eighth and Adams street, Wilmington, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Physicians and Surgeons Hospital, on premises. Brick, 3 stories, 27x80 feet, slag roof, electric lighting, metal lath, waterproofing, wood floors, fire escapes, iron stairs, dumb waiters, tile and marble work. Contract awarded to F. E. Haley, 2607 West Eighteenth street, Wilmington, Del.

Store (alt. and add.), Front and Monroe streets, Wilmington, Del., \$5,000. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owners, F. Blumenthal Co., Wilmington, Del. General interior and exterior alterations. Contract awarded to Walter D. Thompson, Wilmington, Del.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

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No one suffers from a mean disposition like the fellow who has one.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Factory, Nixon and Fountain streets, \$75,000. Philadelphia Paper Manufacturing Co. (O), on premises. Barclay White Co. (C), 1713 Sansom street. Brick, 1 story, 170x273 feet, concrete floors.

Factory, Ruth and Somerset streets, \$150,000. Orinoka Mills (O), on premises. William Steele & Sons Co. (C), 34 and 36 South Fifteenth street. Reinforced concrete, 5 stories, 44x205 feet. Brick, slag roof.

Dwelling, 28 West School Lane, \$19,000. W. Jones (O), Lafayette Building, Philadelphia. Frederick Elvidge & Son (C), 5522 Germantown avenue. Stone and brick, 3 stories, 38x28 feet, slate roof, hot water heating.

Offices, Fourth and Chestnut streets, \$1,800. Brown Bros. Co. (O), on premises. J. S. Cornell & Son (C), Land Title Building. Brick, 1 story, 7x34 feet, tin roof, skylight.

Garage, 106 West Upsal street, \$2,000. Robert J. Montgomery (O). John E. Walt (C), 204 East Willow Grove avenue. Stone, 1 story, 17x27 feet, slate roof, cement floor.

Garage, 4325 North Ninth street, \$580. Geo. Rodgers (O), on premises. George Goode (C), Lawrence and Erie avenue. Brick, 1 story, 15x20 feet, metal door.

Office Building, 1321 South Juniper street, \$1,000. Keystone Heating Co. (O). Alex Chambley (C), 243 South Tenth street. Brick, 2 stories, 15x18 feet, slag roof.

Dwellings (20), 2700 South Sixteenth street, \$34,600. C. M. Weild (O and C), 2316 South Broad street. Brick, 2 stories, 16x42 feet, slag roof, hot air heating, pine floors.

Garage (5), Musgrave and Slocum streets, \$2,500. G. N. Williams (O), 121 Pleasant street. L. W. Kitselman (C), 125 East Upsal street. Brick, 10x20 feet, tin roof.

Dwellings (18), McKinley and Jackson streets, \$39,600. Robert Killough (O and C), Wayne avenue and Duval street. Brick, 2 stories, 16x32 feet, slate and slag roofs, hot water heating.

Storage House, Bridge and Mulberry streets, \$1,500. Mr. and Mrs. F. Kueppers (O), 5102 Darrah street. A. Forepaugh (C), 1671 Dyon street. Brick, 1 story, 16x55 feet.

Service and Sales, 812 North Broad street, \$13,200. Heyman & Bros. (O). Widener Building. D. Henwood (C), 1509 Wood street. Brick, 3 stories, 20x65 feet, slag roof.

Dwelling, Eighty-seventh and Suffolk avenue, \$2,100. Jacob Cesavik (O), 8608 Tholstein avenue. John Scholtz (C), Eighty-fifth and Tinicum avenue. Brick, 2 stories, 17x28 feet, slag roof.

Dwelling, Hartville and Indiana avenue, \$1,000. David McKibbin (O and C), 2900 Frankfort avenue. Brick, 2 stories, 17x40 feet, slag roof.

Die Storage, 4200 Wissahickon avenue, \$4,500. The American Pulley Co. (O and C), on premises. Brick, 2 stories, 70x50 feet, cement tile roofing.

Dwellings (21), 2603-43 South Thirteenth street, \$60,900. Raymond & Kilpatrick (O and C), 1523 Snyder avenue. Brick, 2 stories, 16x39 feet, slag roof, hot air heating.

Church, Fiftieth and Locust streets, \$40,000. First Reformed Church (O), on premises. Stuckert & Co. (C), 1420 Chestnut street. Stone, 73x84 feet, composition roof.

Dwellings (12), 3101-23 Benner street, \$27,800. John G. Sharp (O and C), 6139 Torresdale avenue. Brick, 2 stories, 15x30 feet, slag roof, hot air heating.

Dwelling, 4632 Milnor street, \$2,100. J. Rozanskie (O), 4636 Melnor street. F. S. Gregorek (C), 3185 Edgemont street. Brick, 2 stories, 16x58 feet, slag roof.

Sunday School, Third and Tabor Road, \$70,000. First Presbyterian Church (O). F. L. Hoover & Sons (C). Stone, 2 stories, 90x86 feet, slag roof, steam heating.

Dwelling, Chestnut Hill, \$50,000. N. A. Taylor (O), St. Martins, Pa. Thos. Little Sons (C), 1713 Moravian street. Stone, 3 stories, 102x32 feet, shingle roof, hot water heating.

Coal Trestle, Richmond and Aramingo st., \$7,145. Philadelphia and Reading Railway (O), Reading Terminal. Brann & Stuart Co. (C), 310 Commercial Trust Building. Concrete foundation, yellow pine trestle.

Garage, 2023 and 2025 North Twenty-ninth street, \$12,000. John H. Heber (O), 2027 N. Twenty-ninth street. Mutual Eng. Co. (C). Franklin Building. Brick, 2 stories, 36x28 feet, slag roof, steam heating.

Dwellings (42), Sixtieth and Trinity streets, \$92,000. J. Egnal (O and C), 1173 Lincoln Building. Brick, 2 stories, 16x31 feet, slag roof, steam heating.

Factory, 800-4 North Carlisle street, \$14,000. Florence E. Hall (O), 1402 Ridge avenue. H. P. Schneider (C), 3713 York Road. Brick, 2 stories, 47x15 feet, slag roof, steam heating.

Dwellings (30), 1724-32 Oregon avenue and 2703-51 South Eighteenth street, \$57,000. T. S. Park (O and C), 4106 Girard avenue. Brick, 2 stories, 15x24 feet, slag roof, hot air heating.

Dwellings (8), Seventh and Northeast Boulevard, \$25,000. Thomas Duff (O and C), 3648 Frankford avenue. Brick, 2 stories, 15x29 feet, slag roof, hot water heating.

Garage, 724 North Twentieth street, \$350. J. Baskie (O), 820 Corinthian avenue. W. H. H. Taylor (C), 2016 Brown street. Brick, 1 story, 17x20 feet, cement floors.

Alterations and Additions

Cemetery, Spruce and Ninth streets, \$350.00. J. B. Laurel (O), 1609 Spruce street. L. Snyder Son (C), 260 North Marvine street. Brick wall.

Store and Dwelling, Ninth and Carpenter streets, \$9,000. N. Monticelli (O), on premises. F. Lucci (C), 1603 Ellsworth street. New bulk

windows, new addition. Brick, 16x40 feet, 3 stories, elevator, composition floor, metal ceilings, metal lath, slag roof.

Wall, Seventeenth and Catharine streets, \$3,000. City of Philadelphia (O), City Hall. R. P. Bennis (C), Chew and Price streets. Concrete foundation, brick wall, 13 feet high.

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Factory, Twenty-second and Westmoreland streets, \$2,000. Westmoreland Chemical and Color Co. (O and C), on premises. Addition to factory, 2 stories, brick, 30x27 feet, slag roof.

Storage, Lehigh and Broad street, \$500. Philadelphia and Reading Railway Co. (O and C), Twelfth and Market streets. Corrugated iron, 1 story, 14x32 feet.

Carpet Mill, 1813-15 North Howard street, \$600. D. McDowell (O), 1811 North Howard street. H. Brocklehurst (C), 512 Norris street. Interior alterations.

Store, 1806 Market street, \$2,245. D. B. Fuller (O), 10 South Eighteenth street. Hogg Const. Co. (C), 1634 Sansom street. Interior alterations.

Factory, Church and Tacony streets, \$2,700. F. P. Woll & Co. (O), on premises. Frank English (C), 1608 North Carlisle street. Two fire walls width of building.

Garage, 217-19-21 North Twenty-second st., \$6,000. E. M. Harris (O and C), 2214 Chestnut street. Fire repairs.

Dwelling, 106 North Thirty-fourth street, \$1,345. Mrs. R. Yeckwer (O), on premises. George W. Gardner (C), 511 North Forty-first street. Interior alterations.

Dwelling, 1938 East Lehigh avenue, \$1,250. A. Steigwalt (O), on premises. J. Carberry (C), 1968 Medary avenue. New 2-story front with porch.

Store and Dwelling, 1427 Fairmount avenue, \$925. O. H. Brady (O), 1427 Melon street. J. Carberry (C), 1968 Medary avenue. New bulk front.

Dwelling, 1940 East Lehigh avenue, \$1,250. W. Mainer (O), on premises. J. Carberry (C), 1968 Medary avenue. One-story front with porch.

Tank, Mascher and Columbia avenue, \$500. Synthetie Chemical Co. (O), on premises. Frank Achuff (C), 1600 North Front street. Reinforced concrete tank.

Garage, 739 Northeast Boulevard, \$400. Thomas Duff (O and C), 3648 Frankford avenue. In base ment, plastering, metal lath, fireproof inside.

Store Automobile, 2410 Golf Road, West Philadelphia, \$900. Ed. J. Smith, Jr. (O), on premises. Wm. H. Howe (C), Cynwyd, Pa. Stone, 1 story, 14x21 feet, hot water heat, connect with house.

Store and Dwelling, 948 North Marshall street, \$1,150. Sam Pollocko (O), 63 North Robinson street. Schactner Bros. (C), 1734 North Seventh street. New flush bulk.

Factory, 140 North Eighth street, \$300. Pine Bros. (O), on premises. Philadelphia Steam Heating Co. (C), 1319 Cherry street. Alterations to heating system.

Dwelling, 1915 West Erie avenue, \$1,400. Charles Robb (O), on premises. Frank M. Meingarb (C), 423 North Sixtieth street. Brick, 3 stories, rear, 12x16 feet, tin roof.

Store, 816 North Second street, \$800. Levy Dau (O), 226 South Vermont avenue. Atlantic City, N. J. S. Yellin (C), 3125 Montgomery avenue. Brick wall, put in iron beams.

Dwelling, 48 West Mt. Airy avenue, \$700. Mrs. J. Strouse (O), 132 West Mt. Pleasant avenue. Wm. Gruhler Co. (C), 219 High street. Sheds, 12x12 feet, tin roof, 6x6 feet, tin roof.

Residence, 4800 Chester avenue, \$2,450. J. J. Turney (O), 2972 Aramingo avenue. Davis Clayton (C), 1841 Girudo street. Stone, 18x14 feet, slag roof.

Dwellings, 2613-15-17-19 East Madison st., \$750. H. F. Voss (O and C), 3163 Frankford avenue. Sheds, 12x7 feet, brick.

Dwelling, 3322 North Park avenue, \$1,000. M. P. Simm (O), on premises. Wm. Jones (C),

2927 North Fifth street. Brick, 12x8 feet, 2 stories, rear addition, slag roof.

Store and Dwelling, Torresdale and Cottman street, \$1,200. R. Modecki (O), on premises. Frank Gallus (C), 2758 Buckius street. Brick, 1 story, 20x28 feet, slag roof.

Shed, Twentieth and Allegheny avenue, \$2,000. Standard Pressed Steel Co. (O and C), Twentieth and Clearfield street. Slag roof over yard, 1 story brick addition, 25x75 feet.

Wagon Storage, Fifty-seventh and Race streets, \$4,600. W. E. Tapper (O), 6210 Girard avenue. C. E. White Co. (C), 511 North Sixty-third street. Brick, 1 story, 34x48 feet, slag roof; brick, second story addition, 34x80 feet, slag roof.

Dwelling, 1728 Girard avenue, \$565. W. H. Rogers (O). The Makin Heating Co. (C), 1827 Filbert street. New heater.

Dwellings (7), Eighty-fourth and Eastwick streets, \$26,500. S. Chain (O), 2130 North Front street. Pelofsky & Leavy (C), 8410 Gibson street. Brick, 2 stories, 20x62 feet, slag roof, hot air heating.

Store, Eleventh and Brown streets, \$500. Dr. Charles Schabinger (O), Thirteenth and Lindley avenue. Wm. Ashton (C), 5600 Mascher street. New bulk front.

Garage, 2341 North Twenty-fifth street, \$2,800. George Raynes (O), 2345 North Twenty-fifth street. J. G. Miller (C), 2315 West Clearfield street. Brick, 1 story, 27x90 feet.

Stack, Thirty-first and Jefferson streets, \$1,000. F. A. Poth & Son (O and C), on premises. Steel stack, 15 feet high.

Laundry, Eleventh and Mifflin streets, \$500. Manchester Laundry (O), Eleventh and Mifflin streets. E. Keller Co. (C), 1518 Real Estate Trust Co. Boiler and foundation and setting.

Storage, 1109 Locust street, \$500. Charles Bancroft (O), on premises. Wm. R. Dougherty (C), 1610 Sansom street. Interior alterations.

Store and Dwelling, 722 North Franklin street, \$375. A. Goldner (O), on premises. Nathan Parker (C), 1618 Walter street. Brick, 1 story rear addition, 11x25 feet, slag roof.

Store, Broad and Susquehanna avenue, \$36,000. J. B. Gillies (O), on premises. B. Bornstein (C), 1510 North Franklin street. Brick, 2 story addition, 178x89 feet.

Dwelling, Seventeenth and Spruce streets, \$3,000. Dr. Deaver (O), on premises. H. H. Burrell (C), 206 South Quince street. Brick, 3 story rear addition, 8x14 feet.

Dwelling, 3102 G street, \$1,000. S. Celani (O), 3107 Kensington avenue. J. F. Crowl (C), 3127 Belgrade street. New flush bulk.

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The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—“Municipal Engineering.”

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Avoid the discontented throng;

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Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 12, 1917.—Sealed proposals will be opened in this office at 3 P. M., June 21, 1917, for the construction complete of the United States post office at Cambridge, Md. Drawings and specifications may be obtained from the custodian of site at Cambridge, Md., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 9, 1917.—Sealed proposals will be opened in this office at 3 P. M., June 18, 1917, for the construction complete of the United States post office at Akron, Ohio. Drawings and specifications may be obtained from the custodian of site at Akron, Ohio, or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 17, 1917.—Sealed proposals will be opened at this office at 3 P. M., June 20, 1917, for the construction of the United States post office at Front Royal, Va. Drawings and specifications may be obtained from the custodian of the site at Front Royal, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 17, 1917.—Sealed proposals will be opened at this office at 3 P. M., June 26, 1917, for the construction of the United States post office at Monessen, Pa. Drawings and specifications may be obtained from the custodian of the site at Monessen, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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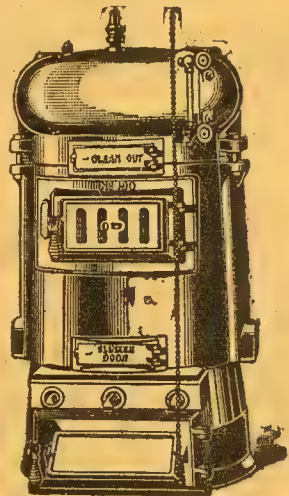
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NAME OF MESH	CLEAR SPAN IN FEET															OVER ALL THICKNESS OF SLAB IN INCHES
	4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	9' 0"	10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	
3-13-075	119	86	63	45	32	22										3 Inches
3-13-075	178	130	96	71	51	36	25									4 Inches
3-13-125	218	164	126	98	76	60	46	36	27							3 Inches
3-13-125	323	245	189	147	116	91	72	56	43	24						4 Inches
3-9-15	395	302	235	185	148	119	95	77	61	33	21					4 Inches
3-9-20	536	413	325	260	211	172	142	117	97	66	44	28				4 Inches
3-9-30	744	578	458	370	303	251	210	176	149	107	77	55	38	25		4 Inches
3-6-40	1049	818	652	529	436	363	305	258	220	162	121	90	67	49	34	4 1/2 Inches
3-6-40	1797	1404	1124	915	757	634	536	457	393	295	225	173	133	102	78	6 Inches

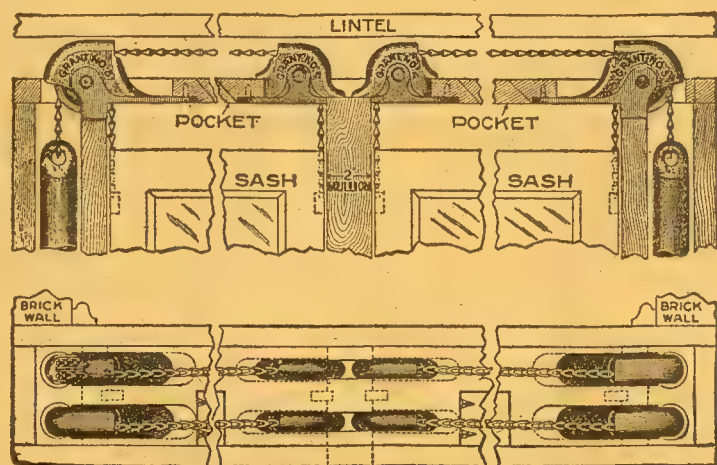
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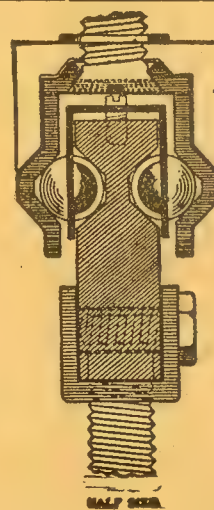
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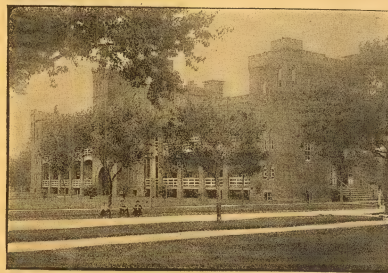
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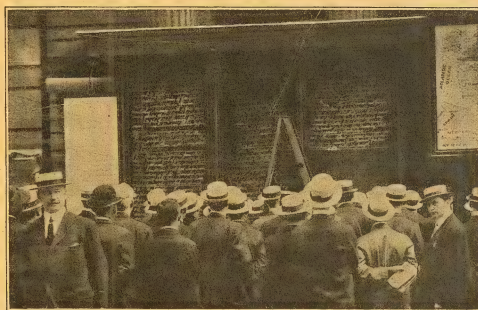
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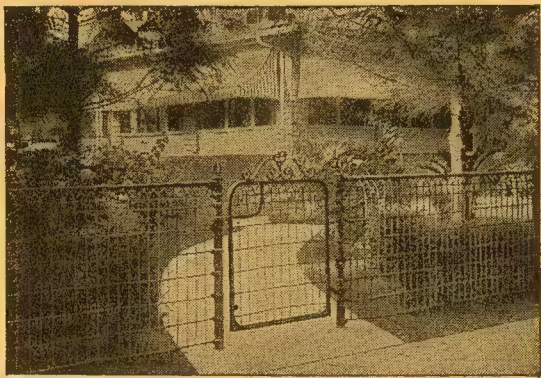
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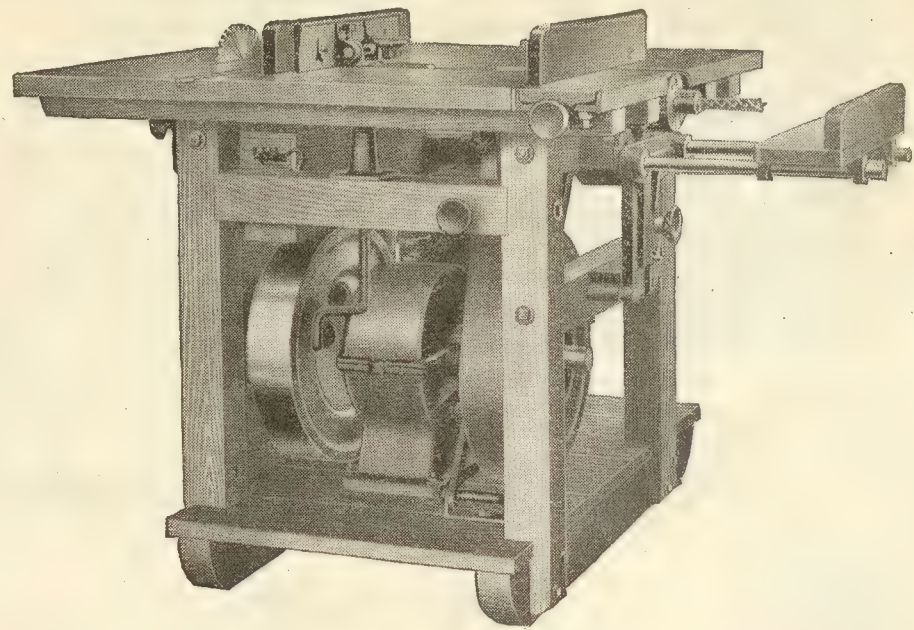
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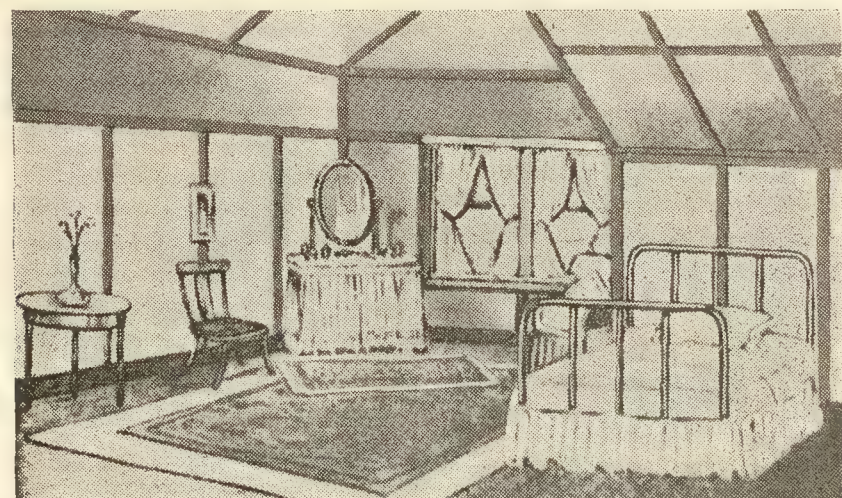
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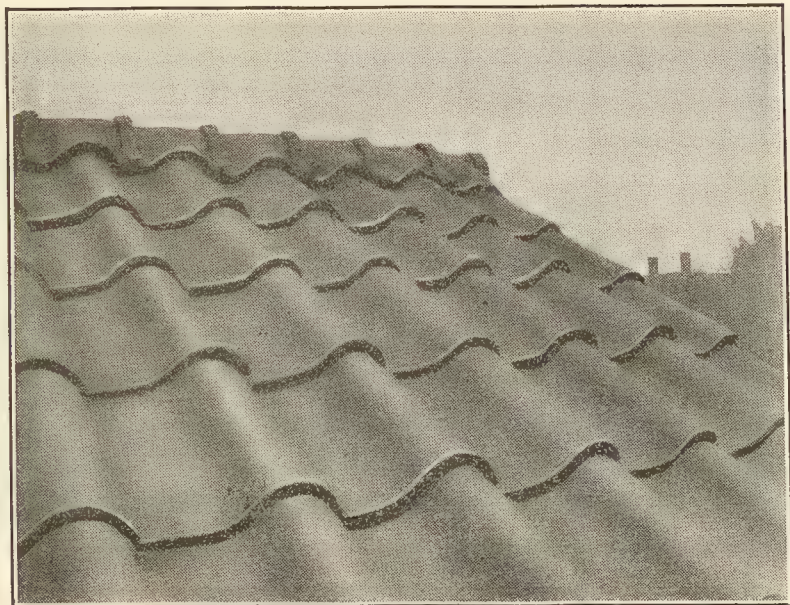
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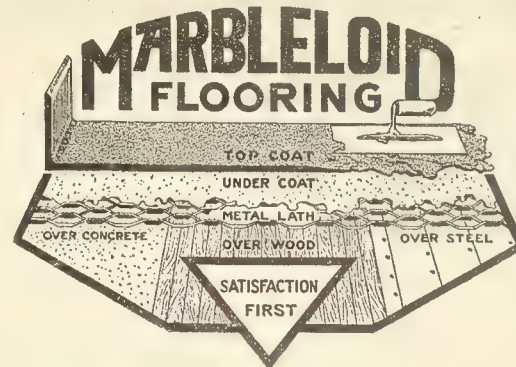


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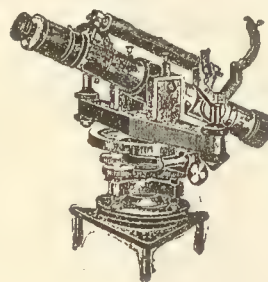
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BUILDERS' GUIDE

VOLUME XXXII
Number 22

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

PHILADELPHIA
May 30, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide
PUBLISHED WEEKLY

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As The Editor Sees It



PHILADELPHIANS owe a debt of gratitude to Mayor Thomas B. Smith for the promptness with which that official squelched the movement instituted to do away with the Art Jury. For some time past there has been a systematic effort on the part of persons opposed to the growing influence of aesthetic considerations in public building to resist the supervision exercised by the Art Jury. The argument of this element has been that the restrictions as to design, harmony with immediate environment and proportions, imposed by the supervisory tribunal, add to the cost of public structures without compensating benefits.

As a matter of fact, the work of the Art Jury has been in the highest degree advantageous from every angle. As Justice Von Moschzisker pointed out in the address delivered by him before the recent Municipal Art Conference the Art Jury is doing, with most commendable intelligence, a work of paramount importance to the city's future development. To install a scheme of comprehensive city planning, involving the expenditure upon a parkway system of millions of dollars, and permit the desecration of such parkways with buildings architecturally hideous, and out of key with the general plan, would be to return to the folly that it is the fixed and definite purpose of city planning to correct.

Fortunately, Mayor Smith is an ex-

ecutive of vision and understanding. When the proposition to do away with the Art Jury reached the ears of that alert and capable official it very promptly received its quietus. Mayor Smith caused it to be known, in terms too emphatic to be misunderstood, that he regarded the work of the Art Jury of commanding importance to a balanced and scientific development of the much desired City Beautiful.

The Mayor's indorsement ends for some time to come all possibility of helter-skelter designing on the city's new and splendid boulevards. It is none the less a trifle discouraging to reflect that, after all that has been said and written upon the subject of expert city planning, there should still remain citizens who can view with composure, if not approve, a letting down of the bars to the type of planning that in other years has made us the butt of more progressive municipalities.

* * *

THE Master Builders' Exchange of Philadelphia is advocating the passage of House Bill 1639, now pending in the Pennsylvania Legislature.

The bill approved requires that no contract may be awarded by a Board of Education anywhere in this State for any work on public schools amounting to \$300 or upward without due advertisement, and that all such contracts must be let to the lowest responsible bidder.

This is the procedure now in Philadelphia, but it is said that the contrary condition prevails in Pittsburgh and elsewhere, many contracts being let, without any advertisement or competition whatever, to favored builders.

* * *

ONE of the greatest civic problems of the day, particularly in the older and larger municipalities of the East, is what to do with the old-fashioned convenience-less dwellings built twenty-five or thirty years ago. They are difficult to rent and harder to sell, except at a price which few owners of real estate can afford to accept.

Philadelphia's development has been particularly trying to those who own real estate in the old residence quarter. The development of West Philadelphia and other outlying sections following the extension of the electric surface and elevated railway systems resulted in a tremendous shifting of the population to the newer sections of the city, where small houses equipped with all modern conveniences could be purchased or rented at prices within the reach of those with the most modest incomes.

What is going to become of more than 100,000 dwellings located in a perfectly good residential section of this city, reasonably well built, with adequate transit facilities and other city conveniences, but whose selling values and rental returns have during the past ten years been distressingly reduced? asks

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.
125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086
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**BLUE
PRINTS**

the *Bulletin* of the Philadelphia Electric Company.

* * *

IN the great majority of cases the fault for the condition complained of rests with the owner. Owners of real estate in the older residential sections of the city have shown a disposition, in other years, to deal with the average tenant as if that hapless victim of circumstances was in some measure compelled to tolerate him. They have not only refused to keep step with the march of progress by installing modern conveniences of living, but in many, very many, cases they have declined to make even necessary repairs. This, too, in the face of the fact that, in not a few instances, they were in receipt of rentals such as netted a percentage on the original investment far above the normal earning capacity of houses of the kind. How to remedy the condition now complained of is a problem. If the neighborhood has not undergone such a general deterioration as would render it distasteful to the right class of tenants the solution would seem to be—renovation.

The expense of electric wiring is not prohibitive, modern plumbing is not necessarily expensive, and good, attractive paint and wall paper cost much less than most folks seem to imagine. Old front doors of the unattractive type may be displaced by showy, hardwood doors at comparatively small expense and back yards, front sidewalks and cellars of cement are an investment worth every penny they cost. Modern heaters and good combination ranges may cost a trifle more than the common variety, but they pay in the end because they hold good tenants.

I know one owner who had a block of dwellings in a down-town section not particularly desirable. The lots were extra deep and the houses contained four good-sized rooms on the first floor. After pondering the question for some time he installed serviceable heaters and ranges, cemented the back yards so as to leave attractive grass plots, put stationary laundry tubs in the out-kitchens and by moving his walls back ten feet on the first floor added an attractive porch to each house. Before these improvements were made he had trouble in keeping tenants in these houses at \$18 a month. After completing the improvements he experienced no difficulty about getting a good grade of tenants at a rental of \$25 a month. And being wise in his day and generation, which means that he keeps them painted and in good repair, he has had no trouble at all in holding his tenants. In fact, when I talked with him recently he showed me a waiting list of ten very desirable wage-earners in the section who asked to be given a chance to rent the first one

of these houses that happened to become vacant.

* * *

WHAT is to be done with houses in the deteriorated sections is a much more serious problem. The best plan, if the owner has the necessary capital, is to convert them into model tenements—by which I mean tenements so constructed as to comply fully with the requirements of the housing regulations. Some owners who have done this claim the investment has proved worth while. There is always a solution if the owner cares to go at his problem in the right way. It is seldom that any two of the conditions presented by property of the class under consideration are alike. Some years ago, I recall, four fine big dwellings in an Italian section remained unsold for over a year although offered at a most attractive figure. On the advice of an Italian agent the owner provided each of the four houses with a good big roomy front cellar entrance. Within a month all four houses sold to Italians at a slight advance on the original asking. The Italian agent figured on the liking of his countrymen for home-made wine and on their insistence upon a broad cellar entrance through which to convey the barrels, wine-press, grape and other staples necessary to its making.

* * *

CASES of the kind may be multiplied without limit. Not long ago, a real estate man was dickering for the sale to a small manufacturing tailor, of a four story dwelling in the Ghetto section. His client remained painfully apathetic until the real estate man made the proposition that if the deal was closed he would tear out partitions on the top floor and add to the advantages of the property a splendid tailor's work-room. The buyer became interested on the jump and the deal was closed without further difficulty.

The remedy for idle realty is renovation. Study the neighborhood. Study the proposition. Figure out in your own mind what the property lacks to make it attractive. Once you have spotted that, the rest is easy. There are exceptions, of course, but exceptions still prove the rule.

* * *

SELLING real estate is a game that not infrequently makes a demand upon what newspaper men call "the news instinct." Witness the following. There was placed for sale, in the hands of a broker here in town, a candy factory with all of its machinery and equipment intact. Some weeks after this white elephant had found a place on his books, he noticed, in passing a Chestnut street bulletin board, an item to the effect that a big cocoa factory in New York State had been ut-

terly destroyed by fire. Having the news instinct he at once dictated a letter to the head of the burnt-out concern, placing before him the opportunity to to secure a plant with machinery and equipment complete at a bargain figure. The letter brought a prompt reply asking for full particulars. There was an inspection of the property in due course, the usual dickering and within less than a month a \$125,000 deal was closed. And still I know men in the real estate game who attribute that particular sale to "luck." If ingrained salesmanship and mental alertness spells luck I'll concur.

* * *

THE Portland Cement Association suggests that there is no good reason for writing "portland cement" with a capital "P," since the product is not made in Portland, Me., Portland, Ore., nor Portland, England. The association recommends this practice to members in the following paragraph:

The emphasis resulting from the capitalization of the letter "P" contributes to the erroneous impression so prevalent that Portland cement is all made by a single corporation—hence such frequent expressions as, "Oh, yes! you are with the Portland people," or "What is the address of the Portland Cement Company?" The word "Portland" is properly to be considered as a qualifying adjective used to distinguish a kind of cement, not a brand of cement or a trade-mark. The case is quite similar to that of "macadam roads," where the word "macadam" has become a common adjective, though derived from MacAdam, the name of the man who invented this type of road. It is believed that departing from the custom of capitalizing the word "portland" will do much to correct the present troublesome misconception.

* * *

PLANS are well advanced for the construction of the cantonments to shelter the emergency army of the United States of 43,000 officers and 1,034,000 enlisted men. The estimated cost of providing temporary construction, etc., is \$75,650,000. The item for erection of temporary buildings amounts to \$40,290,800. Temporary hospitals are to be built to cost \$2,014,540; water and sewer systems will cost \$2,490,000; electric lighting systems, \$604,000; roads, \$5,036,000. The location and size of these camps have not been determined, and it is still a question whether the War Department will purchase the material and engage general construction companies to erect the buildings or award contracts for the complete work. It is planned to erect at Fort Myer, Va., a series of sample buildings arranged in

units of various types of construction, and the departmental designation of a type will be governed, not only by price and availability of material, but by considerations of climate. One of the types will be of metal, another of concrete (which includes the roof), and a third of frame (of the "knock-down" variety). The buildings will be of one

story and of the simplest design. The "layouts" will be for brigade headquarters, a regiment, a battalion, and a company. The officers' quarters for a regiment, for example, will be 84 feet in length and contain at one end the kitchen and mess room with offices at the other; between will be separate sleeping rooms for six officers.

EDITORIAL NOTES

C. T. Van Rensselaer, architect, has moved his office from 432 State street to 505 State street, Schenectady, N. Y.

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Augustus S. Blogden, formerly vice-president of the American Malleables Company, Buffalo, has been made president of the company.

* * *

Frederick W. Wentworth, of Paterson, N. J., and **Arnold H. Moses**, of Camden, have been reappointed members of the New Jersey State Board of Architects.

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Nathan T. Folwell was re-elected president of the Manufacturers' Club at the annual meeting. **Cyrus Borgner**, **Richard Campion** and **William F. Fray** were elected vice-presidents and the following directors: **Alfred E. Burk**, **Samuel G. Croft**, **John Fisler**, **Robert S. Irwin**, **Jules A. Kerle**, **Joseph S. Rambo** and **H. E. Worthington** were chosen.

* * *

The **Bethlehem Steel Corporation** is earning this year, as far as it has gone, at the rate of \$75,000,000 per annum, this to compare with \$57,955,000 for 1916.

* * *

John E. Perry, assistant to the president of the Youngstown Sheet and Tube Company, has been elected president of the Wharton Steel Company, which is now controlled by **J. L. Replogle** and associates.

* * *

F. S. Reitzel, formerly controller of the Pennsylvania Steel Company, Steelton, Pa., and later of the American Iron and Steel Manufacturing Company at Lebanon, Pa., has been appointed controller of **Manning, Maxwell & Moore, Inc.**, New York City.

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The **Baldwin Locomotive Works** has received orders for fifty locomotives for the British government and thirty for the Pennsylvania Railroad.

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The indications are that another **Marcus Hook** is to be built in the vicinity of the big steel plant of the **Worth Brothers'** building now along the Delaware River a short distance below the old fishing village that has become such a factor in the industrial world. This new community is to be known as **Worth City**, and although work is only well started on

the building of the plant that is to employ thousands of skilled and unskilled workmen, there is already a demand for building sites, and it is predicted by those who profess to know that there will be a tremendous increase in property values in that section within the next year or so.

* * *

Lansdowne, Pa., Delaware County, will sell on June 5 \$25,000 4 per cent. tax-free coupon road bonds, voted April 24 last.

* * *

Some of **Herbert C. Hoover's** ideas have value even beyond the important task of food administration. His opinion that results are better obtained by co-operation than by coercion represents first-class economics.—*Washington Star*.

* * *

More than 100 Pennsylvanians will be deprived of money aggregating \$300,000 by the ruling of the United States Supreme Court that employees engaged in interstate commerce may not collect compensation for injuries received while on duty. The only recourse such persons now have is to bring suit against their employers in the Federal courts, and that makes it necessary for them to prove negligence on the part of the employer. In most cases this is virtually an impossibility.

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Relief work is under way and \$50,00 subscribed for immediate aid to sufferers from Atlanta's \$3,500,000 fire. Plans were made to begin rebuilding the burned section through northeastern Atlanta within a week. The flames destroyed 1,563 buildings, according to calculations of real estate and insurance men. Most of the structures were single residences, but several apartment houses, churches and retail stores were burned.

* * *

Major General George W. Goethals has become president of a new firm of construction engineers, as a result of a consolidation of the two firms hitherto known as **George W. Goethals**, 43 Exchange Place, and **Jamieson, Houston & Graham**, 40 Wall street. The new firm will be known as **Goethals, Jamieson, Houston & Jay, Inc.**, which will maintain the offices at 40 Wall street. Other officers will be: **R. E. Graham**, vice-president; **Major Charles C. Jamieson**, **George H. Huston**, **John C. Jay, Jr.**, and **George M. Wells**, directors.

What is said to be the tallest chimney in the world is in Japan and has recently been completed by the **Weber Chimney Company**, Chicago. The chimney is 510 feet high, 42.8 feet in diameter at the bottom and 27.5 feet at the top. The chimney stands on an elevation about 400 feet above the smelter which it serves and to which it is connected by a reinforced concrete flue built partially in the ground. The foundation is a truncated cone 17 feet high, 95 feet in diameter at the base and 42 feet at the top, and contains 2,711 cubic yards of concrete. Steel to the amount of 500 tons was used. The chimney is designed to be earthquake proof.

* * *

Immediately following the declaration of war a period of retrenchment set in, inspired by fear and doubt as to what the future would bring forth. This temporary depression was only natural, but it has been realized that general prosperity will sweep over the country should the "Business as Usual" campaign already started be generally adopted. Past experience has proven that expansion of trade always exists during war times and that the countries affected profit through the free circulation of money. Wages are increased, the number of unemployed minimized, demand for materials stimulated; in fact, every condition is present which would point toward prosperity.

* * *

One of the recent influences that has substantially assisted in raising the hopes of the building industry is the great mass of Government construction that has lately been announced and that still is in prospect. During the past week there were contracts placed for important work of this character and the effect upon the building industry has been galvanic. The War Department is perfecting its plans for the expenditure of millions of dollars in the construction and equipment of training camps and the improvement of fortifications and army posts for the accommodation of the contemplated expansion of the military forces. The structural trades will share in a large manner in this expenditure, and while the profits returned from work of this type are smaller than those obtained through private construction, the activity is welcome, indeed, as it keeps the organizations of the contractors intact until such time as there is a general resumption of private building on a large scale.

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The large war loan is really not a loan, but rather the extension of credit to our allies. The billions of dollars will not be sent out of the country, but will be freed for the transaction of business and circulated among all classes. The country has been enriched through the obtaining of a very large customer, Uncle Sam. He is in the market to buy extensively and has already contracted to expend millions of dollars. These contracts will rebound to the advantage of the country at large. Pessimism must be guarded against and the slogan "Business as Usual" adopted and practiced.

HOUSE BILL No. 1323

An Act That Essays to Provide Local Building Inspection in Every Third Class City, Borough and Township of Pennsylvania, Under the Control and Supervision of the Commissioners of Labor and Industry at Harrisburg—Power Vested in a Central Advisory Committee to Fix Salaries and Make Regulations.

House Bill No. 1323, introduced by Mr. Palmer, of Pottsville, and referred to the Committee on Manufacturers of the Pennsylvania House of Representatives, has for its object the establishing of local bureaus of building inspection, under State supervision, in every third class city, borough and township in Pennsylvania.

The Act follows:

AN ACT

Creating a Division of Building Inspection within the Department of Labor and Industry and Divisions of Building Inspection in the third class cities and providing for the creation of such divisions in certain of the counties, boroughs and townships of the Commonwealth of Pennsylvania; providing for the promulgation of rules and regulations by the Industrial Board to effectuate the purposes of this act; establishing an examining and advisory committee within the Division of Building Inspection; providing for the appointment of officers and employees for the enforcement of the provisions of this act; defining the authority and powers of said Division of Building Inspection and Examining and Advisory Committee and the duties and powers of their officers and employees; providing penalties for the violation of the provisions of this Act and of the aforesaid rules and regulations of the Industrial Board, and repealing all acts or parts of acts inconsistent with this Act; provided, however, that no acts or parts of acts relating to cities of the first and second class are hereby repealed.

Section 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same. That there is hereby created and established a Division of Building Inspection in the Department of Labor and Industry.

There shall be a chief of said Division of Building Inspection appointed by the Commissioner of Labor and Industry, with the approval of the Governor, who may be the civil engineer of the Department of Labor and Industry. He SHALL be provided with a consulting associate or associates to be designated by the Commissioner of Labor and Industry, together with such assistants and clerical force as may be necessary for the effective administration of the division. The salary of the chief of the Division of Buildings shall be four thousand (4,000) dollars per annum; the compensation of such associate or associates as the Commissioner of Labor and In-

dustrial Board shall deem necessary for the proper administration of said Division of Buildings shall not exceed ten (\$10,000) dollars per day for each period of employment, together with traveling expenses actually or necessarily incurred in the performance of their duty and the salary of the assistants to the chief of the Division of Buildings shall be not more than three thousand (\$3,000) dollars per annum for each such assistant.

There is hereby created in such Division of Buildings an examining and advisory committee to consist of the commissioner and the chief of the Bureau of Inspection of the Department of Labor and Industry and the State Fire Marshal and four additional members to be appointed by the Commissioner of Labor and Industry after consultation with the Industrial Board and with the approval of the Governor, one of whom shall be a representative of the third class cities of the Commonwealth, one a representative of the counties of the Commonwealth, one a representative of the boroughs of the Commonwealth and one a representative of the townships of the Commonwealth. The last four members of the examining and advisory committee shall be men of known experience and capacity in building construction who shall also have served an apprenticeship in a building trade or have completed an acceptable course in architecture or building construction. The Commissioner of Labor and Industry shall be chairman of the said committee, but in his absence the chief of the Bureau of Inspection shall be the chairman of such examining committee and the Commissioner of Labor and Industry shall appoint and fix the salary of a secretary for said committee and all of said committee, with the exception of the chairman, shall receive the compensation of ten (\$10.00) dollars per day for each day of service actually rendered to such committee, together with traveling and other expenses actually or necessarily incurred. Vacancies in said committee shall be filled by the Commissioner of Labor and Industry after consultation with the Industrial Board and with the approval of the Governor.

Such examining and advisory committee shall be the judge of the qualification of applicants for the position of building inspectors or assistant building inspectors of any of the divisions of inspection provided by this Act, and no person who has failed to pass the examination before such committee shall be appointed to the position of such building or assistant building inspector in this Commonwealth; provided, however, that nothing in this provision shall apply to cities of the first

and second class. The Commissioner of Labor and Industry shall make required appointments from those persons who have successfully passed the tests of said examining committee except in the case of local officials the appointment of whom is hereafter provided for, and shall appoint all clerks and other executive or clerical force required to make this act effective. The committee shall hold its examinations at such intervals and at such places in the Commonwealth as the committee shall deem necessary. Notice of the time and place of its examinations shall be given by the committee at least fifteen days prior to the holding of such examination.

Section 2. There shall be created in every city of the third class in this Commonwealth, by ordinance of the Councils of such cities, a division of building inspection, which is hereby charged under the supervision of the Division of Building Inspection of the Department of Labor and Industry with the local administration of this Act. The head of said division shall be a building inspector appointed by said city after he shall have duly qualified for the position by passing an examination before the examining and advisory committee of the Division of Buildings of the Department of Labor and Industry. The ordinance of Councils creating such division shall provide for such assistant building inspectors, clerks and others as may be necessary to effectuate the purposes of this section and shall provide for the amount of their salary or compensation and for the payment of the same out of the treasury of said city.

Section 3. There may be created in any borough of this Commonwealth by ordinance of the Councils of such borough a Division of Building Inspection charged, under the supervision of the Division of Building Inspection of the Department of Labor and Industry, with the local administration of this Act. The head of said division shall be a building inspector appointed by said borough after he shall duly qualify for the position by passing an examination before the examining and advisory committee of the Division of building Inspection of the Department of Labor and Industry. The borough ordinances creating such division shall provide for such assistant building inspectors, clerks and others as may be necessary to effectuate the purposes of this section and shall provide for the amount of their salary or compensation and for the payment of the same out of the treasury of the said borough.

There may be created by two or more boroughs combining for this purpose a joint Divi-

(Continued on Page 359.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Stable, etc. (alt. and add.), Sunset and Norwood avenues, Chestnut Hill, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Mrs. Wm. J. Strawbridge, Towanda, Chestnut Hill, Philadelphia. Stone. Preliminary plans in progress. Too early for details.

Apartment House, Germantown, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 3 stories, 50x150 feet, slag roof, steam heating, electric lighting, tile work, hardwood and pine floors, metal lath. Revised plans in progress. Owner ready for sub-bids in a week.

Residence and Garage, Westview street, Germantown, Philadelphia. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Walter Biddle Saul, 4615 Pulaski avenue, Philadelphia. Stone, 2½ stories, 22x95 feet, and wing 22x30 feet, slate roof, hot water heating, electric lighting, tile work, hardwood and cement floors. Plans in progress. Architects will take bids in two weeks.

Laboratory Building (fire repairs), Ridge avenue and Laboratory Hill, Philadelphia, \$25,000. Architect, not selected. Owners, Powers-Weightman-Rosengarten Co., 916 Parrish street. Brick, 2 and 1 story. Contemplate rebuilding at once.

Residence (alt.), 1308 N. Broad street, Philadelphia. Architect, not selected. Owner, Dr. Louis Jurist, 916 North Broad street, Philadelphia. Brick and stone, 4 stories. Extensive alterations contemplated. Details not decided.

Church and Sunday School, Haverford avenue and Robinson street. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners, Hope German Reformed Church, Edw. F. Wessler, 1324 North Robinson street, Philadelphia. Stone, 1 story and 2 stories and basement, 94x75 feet, slate roof, pine and cement floors, vapor or steam heating, electric lighting. Architect taking revised bids, due June 2d. Thos. C. Trafford, 1613 Sansom st.; E. E. Hollenback, Inc., 1804 Brandywine st., and Chas. C. Pace, Merion, Pa., are figuring.

Caretaker's Lodge, Bartrams Gardens, Philadelphia. **Convenience Station,** Westmoreland Park, Philadelphia. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Geo. E. Datesman, Director, City Hall, Pa. Brick and plaster, 1 story, slate and asbestos roofs (plumbing, heating and electrical work separate bids). Owners ready for bids, due June 6th at noon. Plans may be obtained at room 113, City Hall.

Apartment House, Nineteenth and Spruce streets, Philadelphia. Architects, John I. Bright and J. Warren Myers, Otis Building, Philadelphia. Owner, name withheld. Reinforced concrete, stone, hollow tile and terra cotta, 13 stories, 44x132 feet, tile and slag

roof, steam heating, electric lighting, tile, marble and terrazzo work, fire and hollow metal doors, iron stairs, hardwood, pine and cement floors, hollow tile, metal lath, elevators, dampproofing. Revised plans completed. Architects taking sub-bids.

Residences (2), Wissinoming, Philadelphia, \$6,000. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner, name withheld. Brick and rough cast, 2 stories, 16x28 feet, shingle, slag and tin roof, hot air heating, electric lighting, pine floors. Architect taking bids, due June 2d. John F. Davies, 1020 Herbert street; Geo. Rimes, 4842 Hawthorne street; Geo. Byers, 1747 Foulkrod st., are figuring.

Stores (2) (alts.), 4452-54 Frankford avenue, Philadelphia, \$500. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner, Chas. H. Button, Frankford avenue and Sellers street, Philadelphia. Tearing out first floor fronts and putting in new flush bulks. Plans completed. Architect ready for bids.

Residences (alt.), 1912 Spruce street, Philadelphia, \$5,000. Architect, Spencer Roberts, 1524 Chestnut street, Philadelphia. Owner, C. Russell Hinchman, Stephen Girard Building, Philadelphia. Brick and stone, 3 stories, consists of general interior alterations. Plans in progress. Architect ready for bids in two weeks.

Office Building, Central Philadelphia. Architects, John I. Bright and J. Warren Myers, Otis Building, Philadelphia. Owner, name withheld. Reinforced concrete, brick, stone, hollow tile and terra cotta, 13 stories, 55x153 feet, slag and tile roof, steam heating, electric lighting, tile and marble work, fire and hollow metal doors, iron stairs, parquet and cement floors, elevators, roof ventilators, waterproofing and dampproofing. Architects taking sub-bids.

Church, Twenty-eighth and Lehigh avenue, Philadelphia. Architects, Street & Stackhouse, 129 South Fifth street, Philadelphia. Owners, North West Memorial Baptist Church, care of Rev. W. Dallas Cope, 4425 North Eighteenth street, Philadelphia. Stone, 1 story, 74x90 feet, slate roof, pine floors, electric lighting. Architects taking bids, due June 2d. Wills-Ludwick Co., 34 South Seventeenth street; A. R. Raff Const. Co., 1635 Thompson street; Thos. C. Trafford, 1613 Sansom street; F. B. Davis, 240 North Sixteenth street, and E. E. Hollenback, Inc., 1804 Brandywine street, are figuring.

Store and Apartment (alt.), 1626 North Broad street, Philadelphia. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, Wm. C. Benkert, Morris Building, Philadelphia. Brick and stone, 4 and 3 stories, steam heating, electric lighting, tile work, hardwood floors. Plans completed. Architect ready for bids.

Library, Fifty-first and Kingsessing avenue, Philadelphia, \$50,000. Architect, Philip H. Johnson, Land Title Building, Philadelphia.

Owners, Free Library of Philadelphia (Carnegie Branch), John Ashhurst, Librarian, Thirteenth and Locust streets, Philadelphia. Stone and brick, 1 story. Plans about to be started. Too early for details.

Power Houses (2), Navy Yard at Philadelphia, Pa., and Norfolk, Va. Architect, private plans. Owners, U. S. Govt., Bureau of Wharves and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and steel, 1 story and mezzanine, 265 x97 feet, slag roof (heating, lighting, plumbing, ventilating separate bids), concrete and composition floors, hollow tile, metal lath, elevator, rolled steel sash, fire doors, ornamental iron work, metal window guards, wire work. Owners taking bids, due June 4th. Warren-Moore Co., Commercial Trust Building, Philadelphia, is figuring.

Manufacturing Building, Arch and Apple-tree streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Ketterlinus Lithographic Mfg. Co., Fourth and Arch streets. Brick, steel and concrete, 8 stories and basement. Architects taking bids, due May 31st. Melody & Keating, 1322 Race street; Cramp & Co., Denekla Building; Warren-Moore Co., Commercial Trust Building; H. E. Baton, Twelfth and Sansom streets; Geo. Kessler Cont. Co., Drexel Building; Haibach Cont. Co., Twenty-sixth and Thompson streets; Turner Concrete Steel Co., and Barclay White Co., 1713 Sansom street; Longacre Const. Co., Widener Building, are figuring.

Factory Building (alts.), Ninth and Westmoreland streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Surpass Leather Co., on premises. Concrete, steel and brick. Architects taking bids, due May 31st. Drehmann Paving Co., 2622 Parrish street, and Geo. Kessler Cont. Co., Drexel Building, are figuring.

Service Building (completion), Broad and Wallace streets, Philadelphia. Architect, Le Roy B. Rothschild, Bullentin Building, Philadelphia. Owner, Roy A. Heyman & Bro., Widener Building, Philadelphia. Brick, steel and reinforced concrete, 3 stories, 38x100 feet, slag roof, steam heating, electric lighting, cement, tile and maple floors, metal lath and sash, fire doors, (1) elevator and (1) dumbwaiter, rolling steel shutters, gasoline storage system. (Work completed up to plastering.) Architect has received bids.

Dwellings (2) alts. into Stores and Apartments and Garages (2), 6025-29 Germantown avenue, Philadelphia. Owner, name withheld. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Store and apartments brick, 3 stories; garages, stone, 2 and 1 story, 150x90 feet (steam heating, electric fixtures reserved), slag roof, hardwood, composition and cement floors, electric lighting, tile work, hollow metal skylights, gasoline storage system. Architect has received bids.

HEATING

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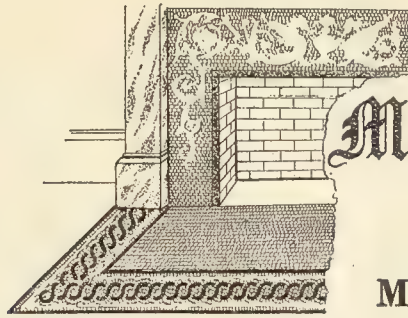
Marble
Mosaic

Terrazza and
Ceramic Mosaic

Tiles for Floors and Fireplaces
Interior Marble Work
Mantles, Marble and Wood

1923 Market Street
PHILADELPHIA

Branch Office, Allentown, Pa.
225 COMMONWEALTH BUILDING



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Manufacturing Plant, near Philadelphia, Pa., \$150,000. Architect, J. Osborne Hunt, 114 Montgomery street, Trenton, N. J. Owners, Pierce-Arrow Tire & Mfg. Co., Germantown, Pa. Too early for details.

Amusement Park (fire repairs), Woodside Park, Philadelphia, \$200,000. Architect, private plans. Owners, Woodside Real Estate Co., care of N. S. Alexander, manager, Woodside Park, Philadelphia. Timber, sheet metal work, tin roofs. Plans on restoration are being formulated.

Building No. 9 (alt. and add.), 4200 Wissahickon avenue. Architect, private plans. Owners, The American Pulley Co., on premises. Brick and steel, 1 story, 68x52 feet, tile roof, concrete floors, rolled steel sash and skylights, iron stairs, concrete floors. Owners, care of Mr. Arnaiz, Chief Draftsman, taking bids, due as soon as possible. Wills-Ludwick Co., 34 South Seventeenth street; Conneen Const. Co., 1737 Filbert street; Thos. C. Trafford, 1613 Sansom street, and Joseph Bechtel, Fifteenth and Race streets, are figuring.

Mill Building (add.), Third and Moore sts., Philadelphia. Architect, private plans. Owners, Geo. W. Lefferts & Co., on premises. Brick, work contemplated. Details not decided.

Store (alt. and add.), 846 North Broad st., Philadelphia. Architect, J. E. Fieldstein, 211 Hale Building, Philadelphia. Owner, Sol Hopkins, 1330 Arch street, Philadelphia. Store front, metal bulks, tile and marble work.

Owner taking bids, due as soon as possible. Mutual Engineering Co., Franklin Building, is figuring.

Hospital and Refectory Buildings (4) and Power Plant, Byberry, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Bureau of Health and Charities, City Hall. Brick, stone, terra cotta and tile, 2½ stories, 222x43 feet, 1 story, 90x64 feet (plumbing, heating and electric work separate bids), slate and slag roof, cement and pine floors, marble and terrazzo work, metal lath, hollow metal skylights, safety treads, metal window guards, iron stairs, ornamental iron work, dampproofing, wire work. Low bidders, hospital and refectory buildings (4), Connors Bros. Co., 64 West Eighty-eighth street, New York City, \$765,600; F. W. Mark Const. Co., Finance Building, Philadelphia, \$929,200. Power plant, Wm. Linker Co., 831 Cherry st., Philadelphia, \$76,790; Mitchell Bros., 2125 Race street, Philadelphia, \$88,888.

Residence (alt. and add.), 3027 Arbor street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, J. M. Kennedy, Jr., 1001 Chestnut street, Philadelphia. Consists of general alterations, new bay windows, hot air heating, electric lighting, marble work, slag roof, cement work. Plans completed. Owner will be ready for bids in a few days.

Store and Dwelling (alt. and add.), 1410-12 Point Breeze avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Tollin, on premises. Brick, 1 story, 32x12 feet, slag roof, electric lighting, tile

and marble work, yellow pine and hardwood floors (heating reserved by owner), metal lath, plastering, hollow metal skylights, metal ceilings. Owners will take sub-bids in about one week.

Store and Dwelling, 717 South Second st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, J. Gold, on premises. Brick and stone, 18x50 feet, 2 stories, slag roof, hot water heating, electric lighting, tile and marble work, metal lath, plastering, metal ceilings, flush bulks. Plans about completed. Owner will take bids in a few days.

Store and Apartments, Thirty-sixth and Powelton avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick and stone, 3 stories, 21x50 feet (2 apartments), slag roof, hot water heating, combination lighting, hardwood floors, tile work. Plans in progress. Will be ready for bids in ten days.

Garage, Thirty-sixth and Powelton avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, 1 story, 50x152 feet, slag roof, cement floor, electric lighting, steam heating. Plans in progress. Will be ready for bids in ten days.

Residence (alt.), 2128 Spruce street, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner, Wm. H. Greene, 2130 Spruce street, Philadelphia. Brick and stone, 4 stories, consists of interior alterations and making two properties into one, hardwood floors, electric lighting, tile work. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Club House, Second and Jefferson streets, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Michael's Literary Society, on premises. Brick and stone, 2 stories, 42x44 feet, pine and cement floors, slag roof, metal lath, waterproofing (heating, lighting and plumbing reserved). Contract awarded to D. W. O'Dea, 5219 North Fifth street, Philadelphia.

Storage Building, 1016 North American st.,

Philadelphia, \$15,000. Architect, private plans. Owners, John M. Melloy's Sons, 1419 Spring Garden street. Brick and steel, 5 and 6 stories, 18x40 feet, slag roof, plank floors (heating and lighting reserved). Contract awarded to H. H. Burrell, 206 South Quince street.

Blacksmith Shop, Thirty-second and Master streets, Philadelphia, \$2,000. Architect, private plans. Owners, Bergner & Engel Brew-

ing Co., on premises. Brick, 1 story, 20x20 feet, corrugated iron roof, rolled steel sash, plank floors. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Department Store (add.), Seventh and Filbert streets, Philadelphia. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, Lit Brothers, on premises. Stone, brick, reinforced concrete and terra cotta, 7 stories, 80x256 feet, slag roof (steam heating, electric work, plumbing, elevators reserved), maple, cement and terrazzo floors, tile and marble work, hollow metal skylights, store fixtures, safety treads, waterproofing. Contract awarded to Keystone State Const. Co., Pennsylvania Building, Philadelphia.

Storage Building, 42-46 North Delaware avenue, Philadelphia, \$40,000. Architects, Otto C. Wolf, Thirty-first and Jefferson sts., Philadelphia. Owners, Armour & Co., 917 Noble street, Philadelphia. Brick and stone, 2 stories, 49x134 feet, slag roof, pine and cement floors (lighting reserved), tile work, hollow metal skylights, elevators, fire doors, waterproofing, wire work, ornamental iron. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street.

Building No. 2 (fire repairs), Thompson and Aramingo streets, \$31,000. Engineer, H. G. Hill, care of John T. Lewis & Bro. Co., 2545 Aramingo avenue. Owners, John T. Lewis & Bro. Co., Lafayette Building, Philadelphia. Brick, 3 stories, 136x39 feet, slag roof (elevators, lighting, heating reserved), concrete and pine floors, hollow metal sash, rolled steel skylights, fire doors, metal lath, wire work. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street.

Warehouse, Office and Garage, Sixteenth and Indiana avenue, \$90,000. Architect, private plans. Owners, Field & Co., 721 Arch street, Philadelphia. Reinforced concrete and brick, 3 stories, 90x201 feet, slag roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and wood floors, hollow tile, (1) elevator. Contract awarded to Austin Co., Transportation Building, Philadelphia.

Residence (alt. and add.), Seminole avenue, Chestnut Hill. Architect, John Graham, Jr., Real Estate Trust Building, Philadelphia. Owner, J. Leeds Barroll, 7207 Charlton avenue, Chestnut Hill. Stone, 3 stories, addition 40x20 feet, shingle roof (hot water heating, plumbing, electrical work and hardware reserved), hardwood floors, tile work. Contract awarded to Wolverton & Collins, 28 E. Willow Grove avenue.

Residence (alt. and add.), Broad street, bel. Oak Lane avenue. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, Reuben Windisch, Old York road, Oak Lane, Philadelphia. Stone, 2½ stories (consists of repairs after house has been moved to new location), slate roof, hardwood floors, electric lighting. Contract awarded to Edw. B. McCall, Sixty-fifth and Park avenue, Oak Lane.

Storage Building, Schiller and Belgrade sts., Philadelphia, \$15,000. Architect, private plans. Owners, C. F. Simonin's Sons, Tioga and Belgrade streets. Brick, 1 story, 73x90 feet, slag roof, cement floors. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Office Building (alt.), Fifth and Ludlow streets, Philadelphia, \$25,000. Architect, private plans. Owners, American Telephone and Telegraph Co., New York City. Consists of interior alterations to seventh floor, office partitions, plumbing, electric work, etc. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street.

Garage, southwest corner of Twenty-second and Race streets, Philadelphia, \$20,000. Architect, Herman H. Kline, Sixth and Mifflin sts., Philadelphia. Owner, H. Fryman, 168 North Twenty-second street, Philadelphia. Brick,

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steel and concrete, 2 stories, 55x90 feet, slag roof, steam heating, electric lighting, metal sash, elevator (electric), rolling steel doors, cement floors, gasoline storage system. Contract awarded to Frank & Kaiser, 1522 South Sixth street, Philadelphia.

Stable, 411-13 Moore street, Philadelphia,

\$4,000. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Goldman, on premises. Brick, stone, steel and concrete, 2 stories, 32x110 feet, slag roof, plank floors, electric lighting, hollow metal skylights. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

PENNSYLVANIA

Construction News

High School (add.), Easton, Pa., \$200,000. Architect, not selected. Owners, School Board of Easton, Easton, Pa. Brick and Indiana limestone, 4 stories. Work contemplated.

Grammar School, Fifteenth street, Easton, Pa. Architect, not yet selected. Owners, School Board of Easton, Easton, Pa. Work contemplated.

Church, Fountain Hill, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owners, Evangelical Lutheran Church, Fountain Hill, Pa. Plans in progress. Too early for details.

Apartment House, Allentown, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, George Fisher, Allentown, Pa. Consists of general interior alterations, 3 stories, 75x17 feet. Plans in progress.

Residences (8), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, L. O. Gramley, Bethlehem, Pa. Brick, 2 stories, 16 x40 feet, slag roof, hot air or hot water heating, electric lighting, yellow pine floors. Plans in progress. Owner will sub-let.

Residence (alt. and add.), Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Miss Nellie Graham, Bethlehem, Pa. Brick, general interior and exterior alteration, slate roof. Plans in progress.

Residence (alt.), South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Mrs. A. D. Mixzell, South Bethlehem, Pa. Consists of general interior alterations, tile floors, steam heating, tile work. Plans in progress.

Double Residence, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Isaac Wilenking, South Bethlehem, Pa. Frame and stucco, 2½ stories, 34x40

feet, slate roof, hot air heating, electric lighting, yellow pine floors. Plans in progress.

Church (alt. and add.), Rosemont, Pa., \$50,000. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Episcopal Church of the Good Shepherd, Rosemont, Pa., Dr. Burton Chance, Radnor, Pa., chairman building committee. Stone and hollow tile, 1 story, irregular, slate roof, steam heating, electric lighting, tile and marble work, tile and reinforced concrete floors, hollow tile, metal lath, roof ventilators, new chapel, organ room, sacristies, cloister and choir rooms. Owners taking bids, due June 4th, at 3.30 P. M. Wm. R. Dougherty, 1610 Sansom street; J. D. Lengle, Wayne, Pa.; Gray Bros., Rosemont, Pa.; Chas. C. Pace, Merion, Pa.; Graham-Campion Co., Otis Building; E. J. Kreitzburg, 1345 Arch street, are figuring.

First National Bank, Palmerton, Pa. Architects, Ruhe & Lange, Allentown, Pa. Owners, First National Bank, Palmerton, Pa. Brick and stone, 2 stories, 40x69 feet, Barrett roof (heating reserved), electric lighting, tile, marble, terrazzo work, hollow metal sash and skylights, kalamein doors, iron stairs, ornamental iron work, concrete and maple floors, hollow tile, metal lath. Architects taking bids, due June 4th. Melody & Keating, 1322 Race street, Philadelphia, are figuring.

Passenger and Freight Station and Platform (alt. and add.), Florin, Lancaster, Pa. Architects, M. of W. Dept., Broad Street Station, Philadelphia, (room 361). Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Brick, concrete and clapboard, 1 story, addition 20x25 feet, slate roof, pine floors, electric lighting. Owners, care of W.

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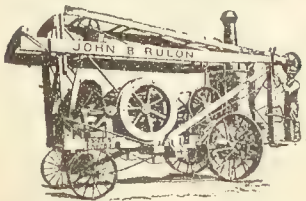
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B. McCaleb, superintendent, Harrisburg Division, taking bids, due June 4th. E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia, is figuring.

Freight Station and Office Building (add.), Coatesville, Pa. Architects, M. of W. Dept., room 361, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Timber and corrugated iron, 2 stories, addition 16x30 feet, and 1 story addition, 20x30 feet, ready roofing, pine floors, wire work. Owners, care of W. B. McCaleb, superintendent, Harrisburg Division, taking bids, due June 4th. E. E. Hollenback, Inc., 1804 Brandywine street, is figuring.

Hotel, Third and Walnut streets, Harrisburg, Pa., \$1,000,000. Architects assoc., W. L. Stoddart, 9 East Fortieth street, New York City, and Esenwein & Johnson, Buffalo, N. Y. Owners, Penna-Harris Hotel Co., E. Z. Wallower, president, Harrisburg. Reinforced concrete, terra cotta and stone, 11 stories, 104x130 feet, composition roof, steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal skylights, fire, kalamein and hollow metal doors, dampproofing and waterproofing, fire escapes, ornamental iron work, maple, cement and pine floors, hollow tile, metal lath, elevators, roof ventilators, metal window guards, wire work. Architect has received revised bids.

Residence (alt. and add.) and Garage, St. Davids road, St. Davids, Pa. Architect, R. C. Owen, 3800 Spruce street, Philadelphia. Owner, Daniel O. Stewart, 301 Midland avenue, Wayne, Pa. Stone and stucco, 3 stories; garage, 1 story, 33x24 feet, slate roof (heating reserved), composition, hardwood and cement floors, tile and marble work, hollow tile, wire work. Architect has received bids.

Cottages (25), Coatesville, Pa. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Lukens Steel Co., Coatesville, Pa. Brick, 2 stories, 22x24 feet, slag roof. Owners, care of Horace B. Spackman, vice-president, have received bids.

Farm House (alt.), Pine Forge, Bucks Co., Pa. Architect, Robt. W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Mrs. David Rutter, Pine Forge, Bucks Co., Pa. Frame and stucco, 2½ stories, asphalt or wood shingle roof, hot water heating, plumbing, tile work, metal lath. Revised plans in progress. Architect will be ready for bids in a few days.

Bungalow, Highland Park, Pa. Architect, J. Fletcher Street, 120 South Fifth street, Philadelphia. Owner, E. H. Sickles, 6208 Washington avenue, Philadelphia. Frame and plaster, 1½ stories, 30x50 feet, shingle roof, electric lighting, hot water heating, hardwood floors, tile work. Owner is taking sub-bids.

Club House, Gulph Mills, Montgomery Co., Pa. Architect, Chas. Barton Keen, 1218 Chestnut street, Philadelphia. Owners, Gulph Mills Golf Club, Gulph Mills, Montgomery Co., Pa. Hollow tile and plaster, 2 and 1 stories, 80x

40 feet, shingle roof, hardwood floors, electric lighting. Plans in progress.

Residence and Garage, Ogontz, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Mrs. Herbert K. Taylor, Ogontz, Pa. Stone, 2½ stories, 50x56 feet, and 1 story, 25x30 feet, shingle roof (warm air heating separate bid), electric lighting, tile work, hardwood and cement floors. Architects have received revised bids.

Residence and Garage, Bangor, Pa. Architect, E. H. Wenzelberger, Easton, Pa. Owner, Dr. L. M. Hackenbury, Bangor, Pa. Brick, 2½ stories, 27x50 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile work. Architect has received bids.

Country House, Highland avenue, east of Bryn Mawr avenue, Merion, Pa. Architect, Bart Tourison, Land Title Building, Philadelphia. Owners, Sullivan Bros., Brockhurst avenue, Narberth, Pa. Stone, half timber and stucco, 2 stories, 26x44 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work, metal lath. Plans completed. Owners will take sub-bids.

Gate House, Chester, Pa. Architect, W. G. Eckles, New Castle, Pa. Owners, Sun Shipbuilding Co., Finance Building, Philadelphia. Brick, 1 story, 110x49 feet (lighting and heating reserved), composition roof, cement floors, metal lath, rolled steel sash, hollow metal skylights, fire and kalamein doors, ornamental iron work. Owners taking bids. Barclay White & Co., 1713 Sansom street, Philadelphia, are figuring.

Pump House, Coatesville, Pa. Architect, C. Willard Leavitt, 220 Broadway, New York City. Owners, Midvale Realty Co., Coatesville, Pa. Brick, 1 story, 18x13 feet, slate roof, electric lighting. Owners taking bids, due as soon as possible. F. W. Van Loon, Denckla Building, Philadelphia, is figuring.

Elevator Building, Reading, Pa. Architect, B. F. Groff, Lancaster, Pa. Owners, F. S. Wertz & Son, Reading, Pa. Brick, 4 stories, 80x40 feet, asbestos shingle roof, wood floors, electric lighting, elevators. Owners have received bids.

Theatre Building, 608-10 Hamilton street, Allentown, Pa. Architect, George Gerhard, 619 Penn street, Reading, Pa. Owner, George W. Bennethun, Reading, Pa. Brick (interior and exterior alterations, 40x170 feet, electric lighting. Plans in progress. Too early for details.

Factory Building (add.) and Reconstruction of FoFundry, Pottstown, Pa. Architect, A. A. Heilman, Reading, Pa. Owners, Light Manufacturing Co., Pottstown, Pa. Brick, 2 stories and basement, 50x30 feet. Plans in progress.

Bungalow, Bally, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owner, August L. Arnold, Reading, Pa. Frame, 1 story, 40x25 feet, slag roof, wood floors, electric lighting. Owner is sub-letting contracts.

Foundry (add.), Oakbrook, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth

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BOTH PHONES

street, Reading, Pa. Owners, Reading Knob Works, Oakbrook, Pa. Brick, 1 story, 50x50 feet, slag roof, cement floors, metal lath. Owners are sub-letting all contracts.

Residences (20), Lansford, Pa. Architect, private plans. Owners, Lehigh Coal and Navigation Co., care of R. Kissinger, Lansford, Pa. Frame and shingle, 2 stories. Plans in progress.

Pennsylvania Contracts Awarded

School House, Fountain Hill, Pa., \$30,000. Architect, E. H. Bitting, South Bethlehem, Pa. Owners, School Board, Borough of Fountain Hill, Pa. Brick, 2 stories, 80x48 feet, slag roof, steam heating, electric lighting, maple floors. Contract awarded to Butz & Clader, Allentown, Pa.

School Building, Yardley, Bucks Co., Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School District of Borough of Yardley, E. E. Yeager, secretary of School Board, Yardley, Pa. Stone, concrete and brick, 1 story, 148x102 feet, slate, tin and copper roof (plumbing, heating, ventilating, electric work and fixtures reserved), cement, oak, gum and pine floors, metal lath, hollow metal skylights. Contract awarded to C. Y. Barlow, Trenton, N. J.

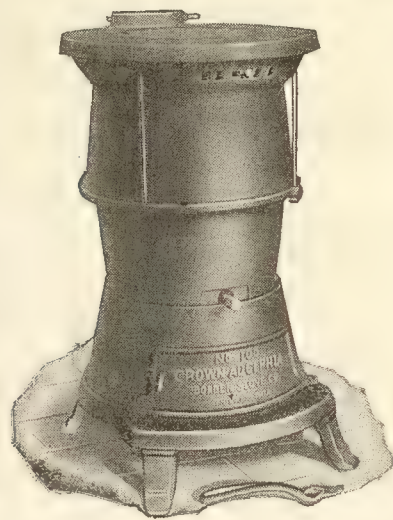
Railroad Bed, Norristown Junction to Abrams, Pa. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, P. & R. R.R., Reading Terminal, Philadelphia. Consists of 25,000 cu. yds. of excavation, 70 cu. yds. of concrete work, masonry and grading. Contract awarded to C. P. Bower, 404 Westview street, Germantown.

Residence (alt. and add.), Glenn road, Ardmore, Pa., \$17,000. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owner, S. P. Curtis, 712 Locust street, Philadelphia. Stone, 2½ stories, 30x26 feet, and 7x22 feet, shingle and tin roof (plumbing, heating, tile work and lighting reserved), oak floors, waterproofing and dampproofing, ornamental iron work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Public School (rebuilding), Slatington, Pa., \$10,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board, P. M. Snyder, Slatington, Pa. Brick, 2 stories and basement, 96x82 feet, slate roof, wood floors, hot air heating, electric lighting. Contract awarded to Beard Const. Co., Reading, Pa.

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NEW JERSEY

Construction News

Passenger Station, Baggage and Express Building, Platform, Shelter and Freight House, Princeton, N. J. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Stone and steel, concrete foundations; passenger station, 1 story and basement, 81x27 feet; baggage and express building, 1 story, 85x23 feet and 21x7 feet; freight house, 1 story, brick, concrete foundations, 60x22 feet and 22x32 feet, slag and slate roof, pine, terrazzo, cement and asphalt floors, steam heating, electric lighting, marble work, hollow tile, metal lath, safety treads, dampproofing, ornamental iron work. Owners taking bids, due June 8th. Wark-Yardley Co., 1737 Filbert street; F. A. Havens Co., 845 North Nineteenth street; Irwin & Leighton, 126 North Twelfth street; Roydhouse-Arey Co., 112 North Broad street, and John R. Wiggins Co., Otis Building, Philadelphia; F. C. Desmond & Co., 110 W. Thirty-fourth street; Moody Eng. Co., 115 Broadway; W. H. Fissell & Co., Marbridge Building, and Geo. B. Wills, Inc., 101 Park avenue, all of New York City; J. S. Rogers Co., Moorestown, N. J.; Hugh B.

Miller, Edgewater Park, N. J., are figuring.

Residence, Strand and Adriatic avenue, Atlantic City, N. J., \$9,000. Architect, L. L. Headley, Guarantee Trust Building, Atlantic City, N. J. Owners, Mr. and Mrs. Robert Lane, care of architect. Brick, 2 stories, 32x60 feet, slag roof (heating undecided), combination lighting, tile work. Architect taking bids, due May 31st. P. J. Hannum, Samuel Headley, Samuel Dolinsky, all of Atlantic City, N. J., and Wm. Charriek, Linwood, N. J., are figuring.

Post Office, Vineland, N. J. Architect, Jas. A. Wetmore, Treasury Dept., Washington, D. C. Owners, U. S. Govt., Treasury Dept., Washington, D. C. Stone and brick, 1 story. Owners ready for bids, due June 27th.

Club House, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth st., Philadelphia. Owners, Merchantville Country Club, Merchantville, N. J. Hollow tile and plaster, 2 and 1 story, 48x48 feet and 2 wings, shingle roof, steam or hot water heating, electric lighting, tile work, pine and cement floors, dampproofing. Plans about completed. Architect will take bids in a week.

NEW JERSEY

Contracts Awarded

Railroad Bed, New York Branch, between Belle Mead and Manville, Somerset Co., N. J. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, P. & R. R.R. Co., Reading Terminal, Philadelphia. Consists of 6 and 7-10 miles of grading and masonry work. Contract awarded to Richards & Gaston, Inc., 143 Liberty street, New York City.

Garage (Hotel Breakers), Atlantic City, N. J. Architects, Smith & Henderer, Atlantic

City, N. J. Owner, Chas. R. Myers, Hotel Breakers, Atlantic City, N. J. Brick, 2 stories, 50x86 feet, slag roof. Contract awarded to Chas. S. Corson, Linwood, N. J.

Flat Houses (2), Ocean City, N. J., \$4,000. Architect, Otis M. Townsend, Ocean City, N. J. Owner, Mrs. A. Mae Reilly, Philadelphia. Frame, 2½ stories, 22x38 feet, shingle roof, electric lighting. Contract awarded to Otis Townsend, Ocean City, N. J.

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Residence (alt. and add.), Atlantic avenue, between Dorcet and Dudley avenues, Atlantic City, N. J., \$25,000. Architect, private plans. Owner, name withheld. Consists of general interior and exterior alterations, 3 stories, 80 x 96 feet, sun parlor, 16x42 feet, green tile roof, steam heating, electric lighting, tile and terrazzo work, reinforced concrete and tile floors. Contract awarded to Wesley B. Porch, Sheen Building, Atlantic City, N. J.

Residence (alt.) and Garage, Ocean City, N. J., \$4,000. Architect, private plans. Owner, Thos. C. McCahan, 6363 Overbrook avenue, Philadelphia. Frame, residence, 2½ stories (porch add. and alt.); garage, 1½ stories, shingle roof, cement and pine floors. Contract awarded to Allen Scull, Ocean City, N. J.

School, Clementon Heights, N. J., \$5,000. Architect, Thomas Stephens, Camden, N. J. Owners, School Board, Township of Clementon, Clementon, N. J. Frame, 1 story, 34x50 feet, shingle roof, yellow pine floors, metal lath, Smith system of heating and ventilating. Contract awarded to Fred Lange, Audubon, N. J.

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MARYLAND

Construction News

Ship Building Plant, Baltimore, Md., \$1,000,000. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Baltimore Ship & Dry Dock Co., Baltimore, Md. Steel and concrete, shipbuilding berths. Preliminary plans in progress. Too early for details.

Garage (alt. and add.), 1033 Cathedral st., Baltimore, Md. Architect, Frederick Thomas. Gunther Building, Baltimore, Md. Owner, Frank M. Olmstead, 1007 North Eutaw street, Baltimore, Md. Brick, 1 story, 22x150 feet, slag roof, steam heating, concrete floor, skylights, reinforced concrete work. Plans in progress.

Operation, Residences, Grading, Paving, Sewage Disposal Plant, Sidewalks, etc., Dundalk, St. Helena, Md. Architect, Edw. L. Palmer, Dundalk, Md. Owners, Dundalk Co., E. D. Bouton, President, Baltimore, Md. Consists of 500 houses, approximately \$2,500 each; sewage disposal plant, Imhoff tanks, paving, grading, water work, electric light distributing plant, to cost \$150,000, artesian wells. Plans in progress. Too early for details.

Residence and Garage, Cedarcroft, Md. Architect, Fred. Thomas, Gunther Building, Baltimore, Md. Owner, G. J. Halter, 4600 York road, Govans, Baltimore, Md. Frame and concrete, slate roof, electric lighting. Plans in progress.

Market House, Howard and Richmond sts., Baltimore, Md. Architect, Fred Thomas, Gunther Building, Baltimore, Md. Owners, City of Baltimore, City Hall, Baltimore, Md. Consists of cutting off shed. Owners taking bids, due May 31st. Jno. Schamberger & Son, 1 North Duncan street; James L. Robinson

Const. Co., 218 E. Lexington street, are figuring.

Garage (add.), Whitelock street, near Cal-low avenue, Baltimore, Md. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owners, Apartment Garage Co., care of architects. Brick, 1 story, 80x137 feet, composition roof, steam heating, electric lighting, iron stairs, plumbing. Architect taking bids, due May 31st. The following are figuring: Price Concrete Const. Co., Maryland Trust Building; Chas. L. Stockhausen Co., Gay and Water streets; Cowan Building Co., 106 W. Madison street; Cogswell-Koether Co., 406 Park avenue; Consolidated Eng. Co., Calvert Building; Singer-Pentz Co., 600 Equitable Building, and West Const. Co., American Building, are figuring.

Residence (alts.), 122-24 W. Franklin st., Baltimore, Md. Architect, James Posey, 923 Fidelity Building, Baltimore, Md. Owner, Dr. R. H. Peters, 1337 Mt. Royal avenue, Baltimore, Md. Consists of general interior alterations, electric lighting, plastering, painting, plumbing. Owners have received bids.

Church, Hamilton, Baltimore, Md. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Owners, Grace Baptist Mission, Rev. W. H. Sledge, 1311 North Caroline st., Baltimore, Md. Concrete block foundations, frame, slate roof, steam heating, electric lighting, plumbing. Architects taking bids, due June 1st. R. B. Mason, 308 W. Madison street; Ignatius Smith, 2207 Roslyn avenue; R. H. Frazier & Son, 234 W. Mulberry street; C. W. Littleton & Son, 4313 Liberty Heights avenue; Gustav Runge, 4604 James avenue, Lauraville, Md., and John Neidhardt, Hamilton, Md., are figuring.

MARYLAND

Contracts Awarded

Bakery, Andre and Clement streets, Baltimore, Md. Architect, O. B. Wight, Munsey Building, Baltimore, Md. Owner, N. Gayo, on premises. Brick, 1 story, 26x35 feet, slag roof, electric lighting, steel and iron work, ventilators, skylights. Contract awarded to Herbert & Prodoehl, Munsey Building, Baltimore, Md.

Residence, Elkridge, Relay, Md. Architect, Laurence Hall Fowler, 347 North Charles st., Baltimore, Md. Owner, Howard Bruce, care of Bartlett, Hayward & Co., Scott and Hamburg streets, Baltimore, Md. Brick, 1½ stories, slate roof, heating, electric lighting. James L. Parsons, Munsey Building, Baltimore, Md., taking sub-bids.

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Bank, Westport, Md., \$2,000. Architect, A. C. Leach, 223 North Charles street, Baltimore, Md. Owners, Westport Bank, C. G. Hilgenberg, on premises. Brick, 1 story, tin roof, electric lighting. Contract awarded to A. L. Blatchley, 700 E. North avenue, Baltimore, Md.

Grain Elevator, Baltimore, Md., \$4,000,000.

Engineer, A. C. Shand, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 15 stories, capacity 3,000,000 bushels. Contract awarded to James Stewart & Co., Inc., 30 Church street, New York City.

committee of the Division of Building Inspection of the Department of Labor and Industry. The County Commissioners creating such Division of Building Inspection shall provide for such assistant building inspectors, clerks and others as may be necessary for the purpose and shall provide for the amount of their salary or compensation and for the payment of the same out of the treasury of the said county.

Section 7. All buildings and structures in this Commonwealth in which people are employed, reside or assemble or shall hereafter be employed, reside or assemble, excepting cities of the first and second class, shall be so constructed, equipped and arranged, operated and conducted in all respects as to provide reasonable and adequate protection for the life and safety of all persons employed in or occupying them; provided, however, that nothing in this section applies to single detached private residences. For the carrying into effect of this provision, the enforcement of which is hereby entrusted to and imposed upon the Commissioner of Department Labor and Industry, the Industrial Board shall have power to make, alter, amend and repeal rules and regulations necessary for applying such provision to specific conditions and to prescribe means, methods and practices to carry into effect and enforce such provision.

Section 8. The rules and regulations of the Industrial Board and the amendments and alterations thereof shall be distributed to all applicants. Every rule or regulation adopted by the board shall be published in bulletins of the Department of Labor and Industry, and in such daily newspapers as the board may prescribe, and no such rule or regulation shall take effect until thirty days after such publication. Any employer, employee, occupant, owner or other person interested, either because of ownership in or occupation of any property affected by any such order or regulation or otherwise may petition for a hearing on the reasonableness of a rule or regulation. Such petition for hearing shall be by verified petition filed with the said Industrial Board setting out specifically and in full detail the rule or regulation upon which a hearing is desired and the reasons why such rule or regulation is deemed to be unreasonable. All hearings of the board shall be open to the public. Upon receipt of such petition, if the issues raised in such petition have theretofore been adequately considered, the Industrial Board shall determine the same by confirming without hearing its previous determination, or if such hearing is necessary to determine the issue raised the Industrial Board shall order a hearing thereon and consider and determine the matter or matters in question at such time as shall be prescribed. Notice of the time and place of such hearing shall be given to the petitioner and to such other persons as the industrial board may find directly interested in such decision.

Miscellaneous Construction News

Store and Apartment House, southwest corner Tenth and Orange streets, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Henry Hinger, Wilmington, Del. Brick, 4 stories and basement, 76x21 feet, Brunel asphalt roof, pine and tile floors, hot water heating, electric lighting, tile work, galvanized iron skylights, iron doors, metal lath. Architects taking bids. J. E. Haley & Son, Wilmington, Del., are figuring.

Residence, Greenboro, N. C. Architects,

Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owner, Mrs. W. H. Mebane, Greenboro, N. C. Frame, 2½ stories, 36x36 feet, wing 19x14 feet, shingle roof (heating reserved), electric lighting, tile work. Owner will be ready for bids in two weeks.

Store Building, Sixth and Market streets, Wilmington, Del. Architects, Brown & White, Dupont Building, Wilmington, Del. Owner, John T. Mullin, Wilmington, Del. Brick and hollow tile, 4 stories (heating and plumbing reserved). Architect has received bids.

HOUSE BILL NO. 1323.

(Continued from Page 352.)

sion of Building Inspection charged, under the supervision of the Division of Building Inspection of the Department of Labor and Industry with the local administration of this Act. The head of said joint division shall be a building inspector appointed by said boroughs after he shall have duly qualified for the position by passing an examination before the examining and advisory committee of the Division of Building Inspection of the Department of Labor and Industry. The borough ordinances creating such joint division shall provide for such assistant building inspectors, clerks and others as may be necessary to the purpose and shall provide for the amount of their salary or compensation and for the ratable payment of the same out of the treasuries of the said boroughs.

Section 4. There may be created in any township of this Commonwealth by the proper authorities of the said township a Division of Building Inspection charged, under the supervision of the Division of Building Inspection of the Department of Labor and Industry with the local administration of this Act. The head of such division shall be a building inspector appointed by said township after he shall have duly qualified for the position by passing an examination before the examining and advisory committee of the Division of Buildings of the Department of Labor and Industry. The township shall provide for the amount of such inspector's salary or compensation and for the payment of the same out of the treasury of the said township.

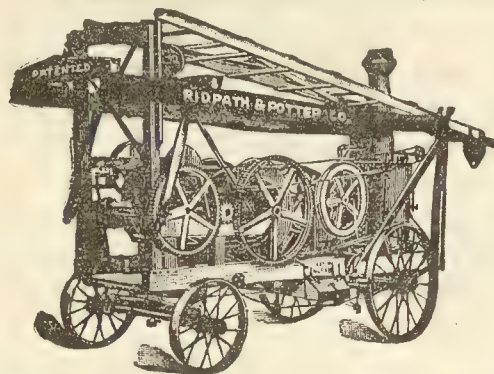
There may be created by two or more townships combining for this purpose a joint Division of Building Inspection charged, under the supervision of the Division of Building In-

spection of the Department of Labor and Industry, with the local administration of this Act. The head of said joint division shall be a building inspector appointed by the said townships after he shall have duly qualified for the position by passing an examination before the examining and advisory committee of the Division of Building Inspection of the Department of Labor and Industry. The townships creating such joint divisions shall provide for the amount of such inspector's salary or compensation and for the payment of the same out of the treasuries of the said townships.

Section 5. There may be created by a combination of a borough with a township or a combination of boroughs with townships, a joint Division of Building Inspection which shall be administered and maintained in the manner hereinbefore provided in the case of joint Divisions of Building Inspection.

Section 6. Where a borough or combination of boroughs or a township or combination of townships or a combination of boroughs and townships shall fail to create the Division of Building Inspection which it is the intent and purpose of this Act to establish therein, it shall be the duty of the County Commissioners of the county within which such subdivisions of the State are located, upon written notice from the Department of Labor and Industry to establish a Division of Building Inspection in said county which shall be charged, under the supervision of the Division of Building Inspection of the Department of Labor and Industry, with the local administration of this Act. The head of such division shall be a building inspector appointed by the said County Commissioners after he shall have duly qualified for the position by passing an examination before the examining and advisory

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Section 9. The Commissioner of Labor and Industry, or his duly authorized representative, including the building inspectors of the Division of Building Inspection charged with the local administration of this Act throughout the State, shall have the right to enter at any reasonable time any rooms, buildings and places within this Commonwealth as specified in this Act, except in cities of the first and second classes, for the purpose of carrying out the provisions of this Act, and no person shall hinder or delay him or such representatives or building inspectors in the performance of their duties in the enforcement of this Act or refuse to admit or lock out any such representatives or building inspector or refuse to give him information required for the proper enforcement of this Act.

Section 10. The Commissioner of Labor and Industry shall direct and supervise the creation of the said Division of Building Inspection and the work and activities of the said division shall be subject to his direction and supervision. He may attach the Division of Building Inspection to the Bureau of Inspection or make such other arrangements as in his judgment will most effectively and economically accomplish the purpose of this Act, and such other work as is required by law to be performed by the Department of Labor and Industry. He shall have authority to appoint such persons or assign from among the employees of the Department of Labor and Industry such employees as are necessary to perform the clerical work, handle the funds appropriated, prepare and distribute the information necessary to those affected by this Act and perform such other services as are required to enforce this Act, and to fix the

compensation to be paid for such services, except where salaries or compensation are heretofore specified in this Act.

Section 11. The Commissioner of Labor and Industry is hereby empowered to collect, compile and disseminate information regarding the members, classes and costs of structures specified in this act and erected or remodeled in this Commonwealth following the passage of this Act. The heads of local Divisions of Building Inspection in cities of the third class, boroughs, counties and townships or in joint divisions of any of these governmental units shall submit in each month a report to the Commissioner of Labor and Industry, specifying the numbers, classes and costs of structures as prescribed in this Act erected or remodeled in the district in which their division has authority for the month preceding the month in which the report is submitted.

Section 12. Any person or persons, partnerships, firms or corporations erecting or remodeling any building or buildings as specified in this Act on and after January one, one thousand nine hundred and eighteen, shall obtain from the Division of Building Inspection of the governmental unit in which building or buildings are to be erected or remodeled a permit for such erection or remodeling and shall pay for such permit to the building inspector in whose jurisdiction the building or buildings are erected or remodeled a fee to be determined by the Industrial Board of the Department of Labor and Industry. The form and wording of such permits shall also be specified by the Industrial Board of the Department of Labor and Industry, and fees collected for such permits shall be paid by the separate building inspectors into the treasuries of

the local governmental units maintaining such divisions of building inspection.

Section 13. Any person who violates any of the provisions of this Act or any of the rules and regulations of the Industrial Board as promulgated by it for carrying into effect the provisions of this Act, or who resists or interferes with any duly authorized representatives of the Department of Labor and Industry or any local building inspector in the performance of his duties in accordance with the said rules and regulations shall be deemed guilty of a misdemeanor and shall upon conviction thereof before any magistrate, alderman or justice of the peace be punished by a fine of not more than one hundred (\$100.00) dollars, with costs of prosecution, which shall be final except for an appeal in the manner now allowed for appeals in suits for penalties.

Section 14. All prosecutions for violations of this Act shall be in the form of a summary criminal proceedings instituted before a magistrate, alderman or justice of the peace within the city, county, borough or township wherein the offense was committed. Prosecutions may be instituted for infractions of this law by the Commissioner of Labor and Industry or his representative or by any member of the local inspection divisions.

Section 15. All fines imposed and collected for any violation of this Act shall be forwarded to the Commissioner of Labor and Industry, who shall pay the same into the office of the State Treasurer for the use of the Commonwealth.

Section 16. All other acts or parts of acts inconsistent with the provisions of this Act are hereby repealed; provided, however, that no acts or parts of acts relating to cities of the first and second classes are hereby repealed.

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Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange.

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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Hagerman and Friendship streets, \$300. J. A. Burke (O), 3604 Princeton avenue. M. Morste & Co. (C), 3931 North Fifth street. Iron on iron.

Garage, 1035 East Tioga street, \$500. Joe Silver (O and C), 1912 East Orleans street. Brick, 1 story, 16x20 feet, slag roof.

Dwellings (2), Duncannon and Eleventh streets, \$6,000. Wm. Moore (O and C), 1028 Duncannon street. Brick, 2 stories, 15x42 feet, slag roof.

Dwellings (3), 6170-2-74 Ridge avenue, \$155,000. Albert Berry (O). Roxborough Plumbing and Heating Co. (O), 6070 Ridge avenue.

Hospital, Allegheny and Tulip street, \$40,000. Northwestern Hospital (O), 2359 Allegheny avenue. Barclay White Co. (C), 1713 Sansom street. Brick, 2 stories, 41x100 feet, slag roof.

Beef Packing House, 43 North Water street, \$40,000. Armore Co. (O), 120 Broadway, New York City. A. Raymond Raff Co. (C), 1635 Thompson street. Interior alterations.

Garage, Foulkrod and Harrocks streets, \$1,100. James Speatt (O), 3334 North Seventeenth street. John Frothingham (C), 3367 Frankford avenue. Brick, 18x30 feet, slag and slate roof.

Garage, 6350 Woodbine avenue, \$1,500. P. J. Whelan (O). G. Kessler Cont. Co. (C), 931 Drexel Building. Brick, 1 story, 18x25 feet, shingle roof, cement floor.

Dwelling, 333 South Cottman street, \$3,000. A. Moule (O), 2726 Race street. Michael Stevens (C), 910 Fanshaw street. Brick, 2 stories, 16x48 feet, slag roof, hot water heating.

Twin Dwelling, Princeton and Oakley street, \$6,000. M. Cummings (O), 7100 East Rising Sun avenue. Michael Stevens (C), 910 Fan-

shaw street. Stone and brick, 3 stories, 16x48 feet, slate roof, hot water heating.

Dwelling, Bingham and Cottman streets, \$3,000. E. Potts (O), 2726 Reese street. Michael Stevens (C), 910 Fanshaw street. Stone and brick, 3 stories, 16x48 feet, slate roof, hot water heating.

Light Storage, 5623 Race street, \$4,000. A. Rosengarten (O and C), 5631 Race street. Brick, 2 stories, 60x30 feet, slag roof.

Garage, 2512 South Seventy-first street, \$300 B. F. Reiger (O and C), 2512 South Seventy-first street. Brick, 1 story, 20x24 feet, slag roof.

Garage, 533 Hermit Lane, \$500. Harry Helms (O), on premises. Keller Bros. (C), 480 Harcum Road. Brick, 1 story, 16x33 feet, slag roof.

Warehouse, Office and Garage, Sixteenth and Indiana avenue, \$90,000. Field & Co. (O), 721 Arch street. Austin & Co. (C), 26 South Fifteenth street. Brick, 3 stories, 90x201 feet, slag roof, hollow tile and reinforced concrete, 1 elevator, concrete and wood floors, steam boiler.

Garage, 705 Cheltenham avenue, \$500. Robert Dippy (O), on premises. E. E. Lloyd, Jr. (C), Oak Lane. Frame, 1 story, 12x18 feet.

Garage, 706 North American street, \$500. Ben Hardock (O), 531 North Second street. Elmer C. Snyder (C), 1211 Marlborough st. Brick, 1 story, 13x22 feet, cement floor, slag roof.

Garage, Palmer and Blair street, \$3,850. Mrs. Dorothea Will (O), 432 Wyoming avenue. Charles Schoppe (C), 1850 East Orleans st. Brick, 1 story, 80x94 feet, rubber roofing.

Dwellings (9), Sixty-fifth and Stenton avenue, \$27,500. Henry Parker (O and C), 4709 North Broad street. Brick, 2 stories, 15x31 feet, slag roof, hot water heating.

sel, 5606 Utah street. Brick, 1 story, 12x15 feet, tin roof.

Dwelling, 41 East Chestnut street, \$2,000. Ed. Dunn (O), 117 Bethlehem Pike. H. H. Burrell (C), 206 South Quince street. Interior alterations.

Office, Chestnut and Juniper streets, \$2,000. Weightman Estate (O), Philadelphia. Snyder Royer Co., 1225 Race street. Interior alterations.

Dwelling, 1737 Christian street, \$325. A. G. MacKinzie (O), on premises. W. J. Robinson (C), 1508 Lombard street. Brick, 1 story, 13x13 feet, slag roof.

Garage, Lawnton avenue, Oak Lane, \$500. Chas. Jacobs (O), on premises. Essick Cont. Co. (C), 1345 Arch street. Interior alterations.

Tanks, Twenty-fourth and Vine streets, \$1,000. John Lang Paper Co. (O), on premises. Wm. H. Eddelman & Son (C), 453 Green Lane. Steel beam platform.

Storage, Schiller and Belgrade streets, \$15,000. C. F. Simonins Sons (O), on premises. Harry Gill, Jr. (C), 2515 Germantown avenue. Brick, 1 story, 73x90 feet.

Office Building, Fifth and Ludlow to Ransstead street, \$25,000. American Telegraph and Telephone Co. (O), Plant Dept., New York. F. L. Hoover's Sons (C), 1023 Cherry street. Interior alterations to seventh floor.

Dwelling, 164 Dupon street, \$800. John Rowland (O), Ritchie and Dupont streets. C. Morris Swartley (C), 6835 Ridge avenue. Brick, second story rear addition, 11x16 feet, tin roof.

Store, Frankford and Orthodox street, \$7,000. Philadelphia Electric Co. (O), Tenth and Chestnut streets. Charles Gilpin (C), Fifteenth and Market streets. Brick rear addition, 2 stories, 22x33 feet, new bulk windows.

Garage, Allegheny and Broad street, \$2,500. George Crumbil (O), on premises. A. P. Schneider (C), 3713 York Road. Brick addition, 54x30 feet.

Factory, James and Fraley streets, \$13,000. Abrasive Metal Co. (O and C), on premises. Architect, H. W. Castor, Stephen Girard Building. Brick, 1 story, 62x231 feet, slag roof.

Dwelling, 6232 Buist avenue, \$400. George Eldridge (O and C), on premises. Brick, 2 stories, 16x16 feet, tin roof.

Y. M. C. A., Eighteenth and Filbert streets, \$8,189. The P. R. R. (O), Broad Street Station. Wark Yardley (C), 1737 Filbert street. Brick addition, 11x12 feet, interior alterations.

Machine Shop, Cornby and Milnor streets, \$6,000. Quaker City Rubber Co. (O), on premises. S. S. Wilmer (C), 3211 Cornby street. Frame, 1 story, 50x100 feet, cement floor.

Business, 619 Market street, \$500. Gately & Fitzgerald (O). S. E. Brown Heating Co. (C), 18 South Seventh street. Steam heating boiler.

Paint Shop, Pennypack Creek and Frankford avenue, \$700. Summerdale Dyeing Co. (O), Holmesburg. J. A. Hand (C), 8029 Frankford avenue. New roof, slag.

Store and Dwelling, Moyamensing and Wharton street, \$800. Philip Getzen (O), 1318 Moyamensing avenue. Jacob Bender (C), 1817 South Fourth street. Alterations to extended bulks.

Dwelling, 2330 North Twenty-first street, \$750. Fidelity Trust Co. (O), 325 Chestnut street. A. S. Brown (C), 1901 East Clearfield street. Interior alterations.

Garage, 1208 South Juniper street, \$900. M. Morrison (O), 1209 South Broad street. H. F. Dunkelacker (C), 227 North Farson street. Brick, 1 story addition, 12x28 feet, slag roof.

Dwelling, 1220 Spruce street, \$1,500. Frank Pleasanton (O), 2009 Pine street. D. K. Darrow (C), 235 South Twelfth street. Brick,

Alterations and Additions

Store, 19 North Seventh street, \$1,500. Elwood Wilson Estate (O), 18 South Seventh street. The Driscoll Co. (C), Stock Exchange Building. New flush bulk window.

Store, 1702 North Broad street, \$1,000. L. Freedman (O), Finance Building. Smith-Hardican Co. (C), 1606 Cherry street. Install steel beams and columns.

Garage and Shed, Jasper and Somerset sts., \$5,000. Orinoka Mills (O), Ruth and Somerset streets. Wm. Steele & Sons Co. (C), 30 South Fifteenth street. Brick and tile, 1 story addition, 57x102 feet.

..Factory, 4058 Haverford avenue, \$17,500. Wm. Burningham (O), 4056 Haverford avenue. Warren Briscoe (C), 3954 Ludlow street. Brick, 3 stories, 23x85 feet, addition.

Store and Dwelling, Twenty-fourth and Master streets, \$300. J. Stern (O), Twenty-second and Catharine streets. Owen Fogarty (C), 1918 CCherry street. New flush bulk.

Dwelling, Sixty-fourth and Church Road, \$1,000. A. H. Englund (O), on premises. John N. Gill & Co. (C), Otis Building. Stone, 1 story, 18x18 feet, slate roof.

Office, Thirty-second and Powelton avenue, \$3,000. The Pennsylvania Railroad Co. (O and

C), Broad Street Station. Brick, 1 story rear addition, 21x26 feet.

Dwelling, 1305 South Dorance street, \$300. M. Moorefield (O), on premises. Chas. G. Seidel (C), 2524 South Juniper street. Brick, second story rear addition, 10x4 feet, tin roof.

Store and Dwelling, Cumberland and Napa streets, \$450. H. Hartman (O), on premises. M. Shoemaker (C), 2545 Silver street. Interior alterations.

Shop, 1722-24 North Ninth street, \$800. Steward & Stevens (O and C), on premises. Brick, 1 story, 30x38 feet, addition.

Dwelling, 3618 Market street, \$975. C. M. Quigley (O), 6157 Chestnut street. Frederick Sabin Co., Inc. (C), 237-39-41 Broad street. Steam heating system.

Dwelling, 4647 Leiper street, \$6,000. D. R. Greenwood (O), on premises. C. West & Co. (C), Oxford avenue and Wakeling. Brick, 2 story rear addition, 28x17 feet, tin roof.

Dwelling, 2928 Richmond street, \$1,900. T. T. Crosson (O), on premises. J. Gaertner (C), 2214 North Third street. Brick, 2 stories, 20x30 feet, slag roof.

Dwelling, 742 East Cheltenham avenue, \$300. C. Hildebrand (O), on premises. George Fos-

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second and third story addition, 13x16 feet, slag roof.

Dwelling, 617 South Seventeenth street, \$1,100. Sady Reed (O), on premises. Robert West (C), 8220 Buist avenue. Brick, 3 story addition, 14x26 feet.

Dwelling, 1909 North Broad street, \$460. A. H. Mershon (O). E. J. Kreitzburg (C), 1345 Arch street. Porch, 10x10 feet, tin roof, rear.

Roof, Jefferson, west of Thirty-first street, \$925. F. A. Poth & Son (O). Philip Haiback Con. Co. (C), 1261 North Twenty-sixth street. Temporary roof over temporary boiler.

Chimney, Allegheny avenue and A street, \$2,350. A. Holmes & Son (O), on premises. Alphons Custodis Chimney Construction Co. (C), Pennsylvania Building. Brick, 110 feet high by 4 feet 8 inches inside diameter at top.

Office and Storage, York Road and Butler street, \$1,600. Welsh Bros. (O), on premises. M. Roy Sheen (C), 1220 Butler street. Brick, 2 stories, 25x51 feet, slag roof.

Nurses' Home, 2342 Fitzwater street, \$500. J. J. White (O), 2340 Fitzwater street. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

Factory, Ninth and Nectarine streets, \$900. S. & J. Welsh (O), 304 Walnut street. William Easterbrook (C), 146 North Fourth street. Brick wall.

Shop, 322-24 South Hicks street, \$1,800. Hamilton & Kapneck (O), 1601 Lombard street. Ed. C. McColley (C), 350 South Sixteenth street. Brick, 2 story addition, 20x32 feet, slag roof.

Store and Dwelling, 470-72 North Fourth street, \$350. Sam Messinger (O), 472 North Fourth street. Sam Kay (C), 605 Morris street. Alterations, change doorway.

Heating Plant, Pelham Road and Horter street, \$1,500. Germantown Steam Co. (O), on premises. Wilbert O. Springer (C), 1624 Latimer street. Brick, 1 story, 10x27 feet, slag roof.

Party wall, 2412 North Twenty-seventh street, \$450. Geza Meyer (O), on premises. G. H. Eckard (C), 1320 North Carlisle street. Brick wall.

Stable, 754-56-58 South Broad street, \$1,000. Dayton Perry (O), 716 South Broad street. Charles Zebbley (C), Pine and Quince streets. Put in bulk front, interior alterations.

Factory, 1021-27 Wood street, \$28,000. Harrison C. Rea (O and C), 1314 Arch street. Reinforced concrete, 4 stories, 60x80 feet, addition.

Store, 4452 Frankford avenue, \$450. Chas. A. Button (O and C), Frankford and Sellers street. Bay window and alterations.

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Aluminum Bronze.

Aluminum bronze formed of 95 per cent. copper and 5 per cent. aluminum has great strength and is highly ductile, while it is not adversely affected by high temperature.

* * *

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A suitable mixture for brass fittings which require to be machined is stated to be the following: copper, 85 per cent.; lead, 5 per cent.; tin, 5 per cent.; zinc, 5 per cent. The castings are said to be sound, good, and to machine well.

* * *

Manganese Bronze.

The proportions for a good manganese bronze are said to be as follows: Copper, 58 per cent. to 60 per cent.; zinc, 39 per cent. to 41 per cent.; manganese, 1.5 per cent. to 2 per cent.; aluminum, iron and tin, 1 per cent. each.

* * *

Manganese Bronze Substitute.

A substitute said to be practically as good for manganese bronze is composed of 55 per cent. copper, 44 per cent. zinc, 0.5 per cent. tin, 0.5 per cent. aluminum. The alloy is said to improve if 2½ per cent. of a 30 per cent. manganese copper be used instead of an equal amount of simple copper.

* * *

Solders.

The addition of small quantities of bismuth and cadmium to lead and tin solders lowers the melting point, thus permitting a higher percentage of lead to be used. Good proportions are represented by the following: Lead, 75; tin, 23; cadmium, 1; bismuth, 1.

* * *

Hardening Lead-Antimony Alloys.

The hardening of mixtures of lead and antimony is a somewhat difficult problem. Copper is frequently added in proportions from 0.50 to 1 per cent. These proportions slightly harden the alloy. The use of larger proportions of copper is not satisfactory.

* * *

German Silver.

The composition of the best grade of German silver is said to be the following: Copper, four parts; nickel, two parts; zinc, two parts. This composition is one found very suitable for tableware. To avoid trouble in connection with annealing it is, however, necessary that the dies used in the manufacturing processes should be kept in perfect order.

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 17, 1917.—Sealed proposals will be opened at this office at 3 P. M., June 20, 1917, for the construction of the United States post office at Front Royal, Va. Drawings and specifications may be obtained from the custodian of the site at Front Royal, Va., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 17, 1917.—Sealed proposals will be opened at this office at 3 P. M., June 26, 1917, for the construction of the United States post office at Monessen, Pa. Drawings and specifications may be obtained from the custodian of the site at Monessen, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 23, 1917.—Sealed proposals will be opened at this office at 3 p. m., June 27, 1917, for the construction complete of the United States post office at Vineland, N. J. Drawings and specifications may be obtained from the custodian of site at Vineland, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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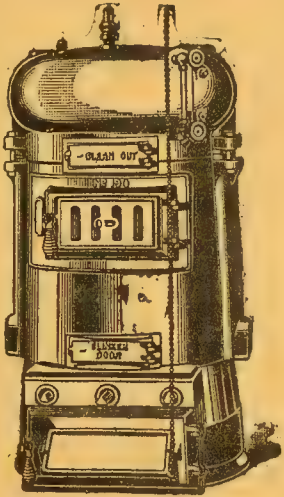
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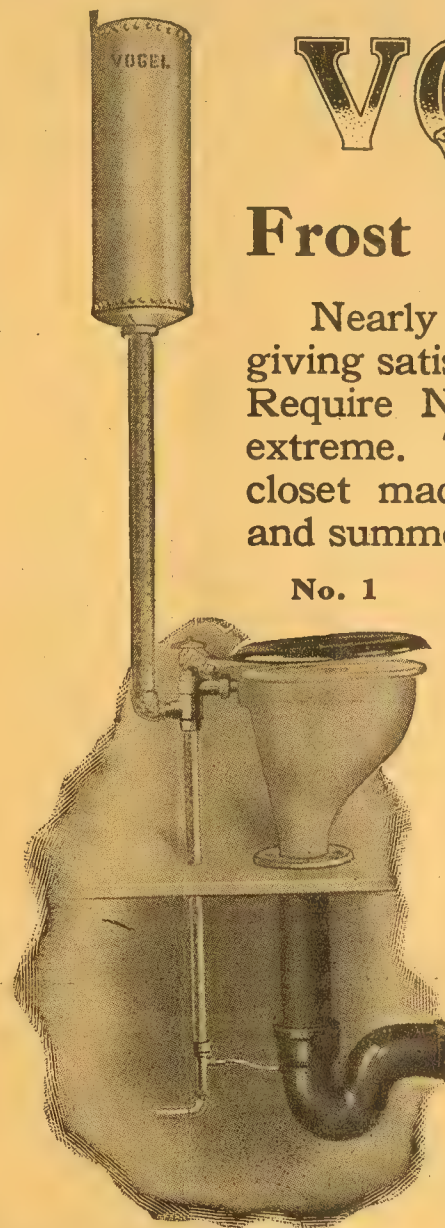
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June 6, 1917

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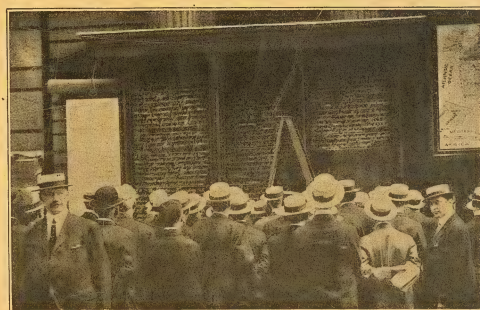


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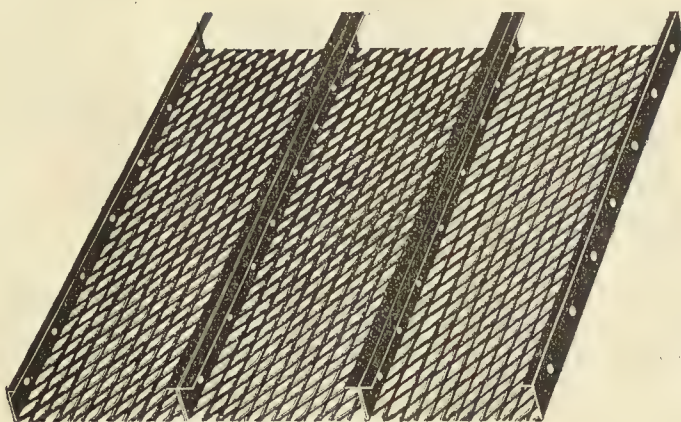
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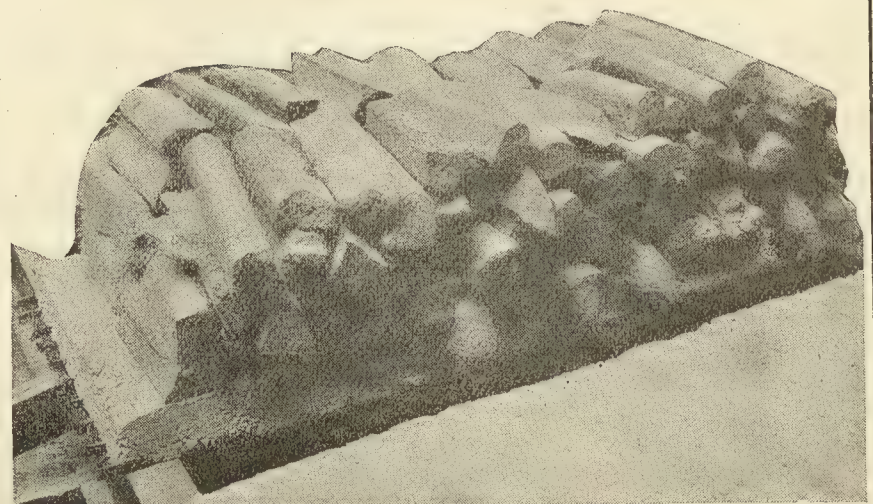
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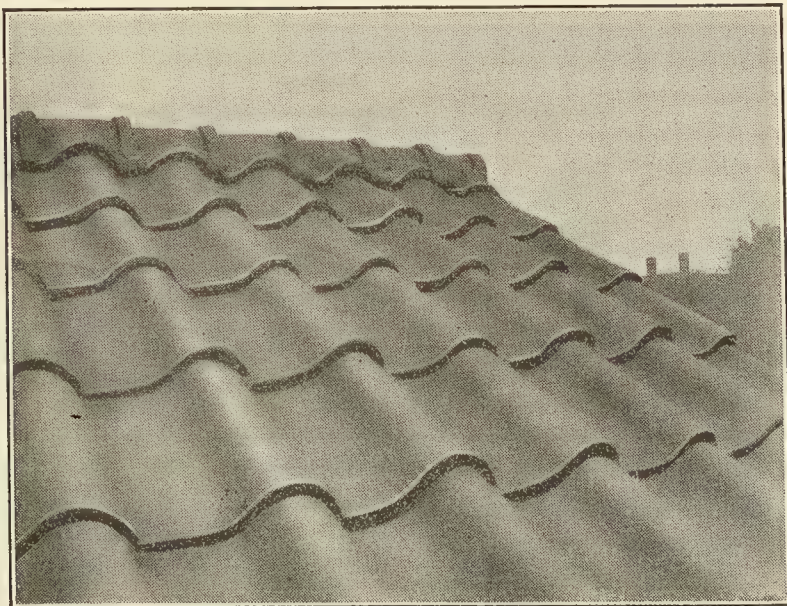
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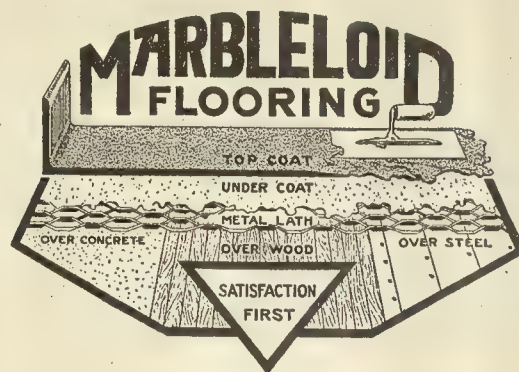
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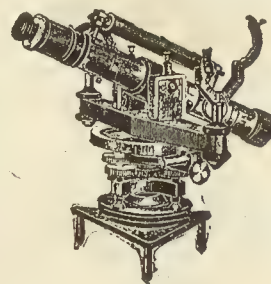
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Number 23

PHILADELPHIA
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As The Editor Sees It



THE high cost of material and labor has had its effect on the building returns for May as compiled by Statistician W. W. Gamble, of the Philadelphia Bureau of Building Inspection. The totals for May, covering all classes of building, shows a decrease from the April figures of approximately \$1,500,000. Mr. Gamble's report, compiled from official figures, shows that there was spent on 971 building operations during May the sum of \$3,558,355. In April \$5,000,000 was expended in new building. A considerable percentage of the falling-off here recorded is attributable to the inactivity among operative builders due to advancing material costs and the uncertainty of the labor market. Less than half as many two-story dwelling were built in Philadelphia, in May of this year, as were built during the same month a year ago.

Since the beginning of the year 1,822 two-story dwelling have been constructed, as compared with 3,531 in the first five months of 1916. Real estate brokers believe that this condition will make for a ready market for older dwellings.

In the first five months of this year an expenditure of \$18,241,465 for 4,884 operations was made, in comparison with \$19,906,505 spent for 6,867 operations in the corresponding period last year. Though investment and speculative building has fallen off considera-

bly, a favorable condition the last few months has been the erection of additions to plants by business concerns to accommodate expanding business.

* * *

FOLLOWING is a summary of the month's building work, the statement giving the character of the buildings, number of permits issued, the operations and the estimated cost.

Character.	Operations.	Est. Cost.
Dwellings, 1 story ...	2	\$2,500
Dwellings, 2 story ...	306	823,350
Dwellings, 3 story ...	7	126,000
Dwellings, frame	2	5,650
Manufactories	10	738,500
Workshops	4	8,050
Garages	95	152,005
Office Buildings	3	1,950
Stores	1	13,500
Warehouses	5	131,500
Churches	2	76,000
Bank Buildings	1	164,000
Hospitals	1	40,000
Power Houses	2	168,000
Club Houses	1	11,840
Laundry	1	22,000
Miscellaneous Bldgs....	16	11,600
Additions	144	731,890
Alterations & repairs..	215	233,110
Miscellaneous work ..	128	88,795
Heaters	9	4,385
Fire-escapes	4	2,400
Signs	12	1,630
Totals	971	\$3,558,355

OPERATIVE builders with the necessary nerve to go ahead despite the general feeling of uncertainty, report mortgage money easier than it has been for years and sales uncommonly good. While the advance in every line of material has forced the asking of a considerably higher price per house than the buying investor has been used to, there seems to be a more or less general recognition of the fact that this is to be expected. The demand for houses is, if anything, stronger than ever. Rents are advancing and the curtailed output in the operative field has had the effect of concentrating the attention of buyers on a few, rather than as has heretofore been the case, upon a great number of offerings.

What seems to be needed chiefly among builders is courage to resist the spirit of depressing prophecy and the grit and initiative to push ahead much as if things were around normal. The universe can't afford to stand still simply because a few of the nations upon one of its planets are engaged in armed conflict. Business will be helped most materially by those big enough to disregard the Indian sign and to accept existing conditions as necessary ingredients in a situation altogether unusual. People are going to need houses this year and next quite as urgently as they did last year and the one before. They are prepared to pay more for houses, knowing as they do the series of jumps

**DRAWING
MATERIALS**

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that have taken place in labor, material and equipment during the past two years. An immense mount of money, passing, in fact, all previous records in expenditure, is going to be spent by our own and other governments upon preparatory activities incident to our entry into the war.

* * *

THIS money as it gets into general circulation is certain to produce a healthy and stimulating effect in many lines. What is needed most at this writing is confidence in the future. In the first flush of the unsettling conditions incident to conflict business has been drawn into an attitude of apprehension and distrust. We have become over-timid in estimating the possible consequences of our immersion in actual warfare. To continue this foolish timidity to extremes will be suicidal. It will retard if not paralyze a widening circle of industries.

Material prices are not likely to recede to any sensible extent for years to come. In the opinion of men who are in close touch with the facts prices are likely never again to return to ante-bellum standards. If we look these conditions squarely in the face it must be apparent to us that nothing much is to be gained by postponing projects until the return of peace.

* * *

THE fact that no man may say with any degree of certainty when peace will be in sight serves to add to the general uncertainty. The one, certain, definite, fixed, unanimously-accepted prognostication is that all lines are in for a tremendous business boom in the era immediately in the wake of settlement.

Europe will need to be practically rebuilt. Money will be freer and stand at a higher point per capita than has ever before been known in the nation's history. The demand for supplies in nearly every line will be enormous, urgent and long-continued. Is it wise, in a reasonable survey of all the circumstances to give way to gloomy prophecy and sit, Micawber-like, waiting for something to turn up. Let us get down to business. The earth is going to revolve long after this foreign imbroglio has passed into its page in the world's history.

* * *

THE United States Government is going into building on a large scale to house the new army of 1,000,000 men. Thirty-two towns are to be erected at the mobilization camps, each capable of providing for about 22,000 soldiers, a division of infantry. They are to be called cantonments, and each will be a complete little city in it-

self. The plans are all made. The locations are now being selected by the various department commanders, and as soon as the camp sites are chosen the surveys will be made and contracts will be let. The construction work will be done by contract, under the supervision of Army officers.

To direct this undertaking, Col. I. W. Littell, of the Quartermaster General's Division, has been placed, by order of the Secretary of War, in general charge of cantonment construction. Col. Littell has already begun organizing his forces for the work.

Six hundred million feet of lumber will be required, and arrangements are being made to secure this in all parts of the country, preferably in the section where the camps will be located. Canvas is so scarce and high in price at the present time that the amount needed for tents cannot now be secured. Two sets of tents are required each year, and the wooden construction is not only more desirable, the officers say, but will actually cost less than it would to provide tents.

* * *

EACH of the 32 cantonments contain about 2,000 houses. These will include quarters for the men, officers' quarters, kitchens, mess halls, bathhouses, storehouses and all the various buildings needed for housing the troops and providing for the varied activities of a big camp. Most of the buildings will be long, one-story structures, with some two-story houses. They will be of plain construction, but will be of modern type, and the plans and sanitary arrangements will carry out the most approved methods. They are expected to be the best arranged, cleanest, and most up-to-date barracks yet erected.

Each town will cover about 720 acres, a little over a square mile, and this does not include the large area required for drill grounds at each camp.

The contractors who are to do the construction work will organize their own forces of carpenters, laborers, etc., but the building will be done under the direction of army officers. Several officers from the Quartermaster's Department, Government inspectors, timekeepers, foreman, engineers, plumbers, etc., will be stationed at each camp town, and Col. Littell has already begun to arrange for the men required for this work.

In addition to the 32 camp towns, the Quartermaster's Department will erect groups of warehouses at points where army stores are to be concentrated. The exact number and location of these has not yet been determined, as they are to be erected to meet the needs of the army as they arise,

THE Government public building situation was the subject of the following editorial in the *Washington Post*:

"While the distinguished visitors from England and France will be too courteous to comment, one may imagine their impressions as they gaze upon the unique disarrangement of Washington's public buildings.

"Their very haphazardness of situation and construction is symbolic of the blunders of the past that must be rectified in every field of endeavor. The original plans of the Nation's Capital were laid down by the skilled hand of L'Enfant, whose rare foresight and broad vision contemplated a seat of government which would transcend in beauty and grandeur that of any of the capitals of Europe.

"And then we began to build in any fashion and after any model. L'Enfant mapped the approaches and Jefferson searched Europe for plans to aid in building designs. The Capitol and the White House were set on commanding hills, with an uninterrupted vista between. Then the Treasury Building, though of noble and dignified design, was thrust across the vista of the White House from New York avenue and Pennsylvania avenue, to be balanced later on by the State, War and Navy Building, blocking the vista on the opposite side. The Botanic Garden was placed in an area reserved by Washington and Jefferson for a wonderful park approach to the western entrance to the Capitol. Together with these and after came new styles of architecture, such as the State, War and Navy Building, the Postoffice Department and the Pension Office—huge, clumsy, awkward piles without any relation to the classic lines of the early architecture. The L'Enfant plan had become a 'scrap of paper.'

"Thus they stand to-day as monuments to the blunders of the past. They accentuate the demands for better methods of construction and co-ordination in every sphere of the Nation's development from now on. Fortunately there has been no period in our history when these matters have been more in the public mind than they are to-day. With the intelligent support of Congress, as is being given at present in park and building development, one may look hopefully forward to the time when the National Capital will present in its architectural structures the unmistakable evidences of its stability, grandeur, and order."

The man who does not advertise is like the man who stops his watch to save time.—Exchange.

EDITORIAL NOTES

The fight to rescind the contract for the purchase of the Hornor Building, 925-927 Chestnut street, for an administration building for the Board of Education, was practically settled at a special meeting when on the advice of counsel the Board voted to reaffirm the contract. The contract for the purchase of the building for \$600,000 was awarded at the March meeting of the Board. At the May meeting Simon Gratz brought up the question as to whether the Board had the legal right to make the purchase. An opinion of Hampton L. Carson was read. He stated that the Board did have the right under the school code to make such a purchase.

* * *

New shipbuilding yards are being constructed along the coasts of the United States. Last week four yards, to cost \$775,000, were started in the South.

* * *

The taking over by the Government of the 225,000 privately owned freight cars in the country, to be operated to relieve traffic congestion is advocated by Commissioner of Immigration Frederic C. Howe in a pamphlet to be published by the Joseph Fels International Commission.

* * *

No more skyscrapers are to be built during the war. The steel will be commandeered by the Government and used to construct ships. Two types of vessels will be turned out—destroyers, to hunt submarines, and merchantmen, built on a standard pattern, to carry food to the Allies. That President Wilson will act under the authority recently conferred upon him by Congress and divert every ounce of steel to Governmental shipbuilding was the statement made at the Navy Department last week.

* * *

South and West Philadelphia are to be connected by one of the longest and most ornate bridges spanning the Schuylkill River, under plans now being completed by Director Datesman for the development of South Philadelphia and the southern section of West Philadelphia, as the river link between the new boulevards on both banks. Under the plans drafted by Chief Albright, of the Bureau of Surveys, and his chief assistant, B. A. Halde-man, the bridge is to be constructed of steel and concrete, with viaduct approaches as illustrated by the sketch plan of the proposed structure which has been submitted to the Art Jury for approval. The total cost is estimated at about \$1,000,000, toward which \$60,000 has been already appropriated by Councils for preliminary work and construction of retaining walls for the eastern approach to the bridge from Gray's Ferry avenue.

* * *

Determined to do something for his country in spite of his failure to be included among

those sent to Fort Niagara, N. Y., for France, as an officer, William Campbell, Jr., of 6103 Columbia avenue, Overbrook, president of the William Campbell Company, Inc., manufacturers of linoleum, has enlisted in the Naval Coast Defense Reserve. Mr. Campbell has a wife and two children. He is a member of the Union League, Manufacturers' Club and the Lansdowne Country Club.

* * *

Ample depth of channel in the Delaware River is shown by the arrival at this port of the American steamship Edward Luckenbach, drawing thirty-one feet two inches of water. This is the deepest-laden vessel that has ever passed up the Delaware River. This was the maiden voyage of the Luckenbach, and it was once reported she would make enough on this voyage to pay for her construction.

* * *

Waste of labor through irregular employment and maintenance of large numbers of valets and flunkies are responsible for the present apparant labor shortage, Samuel Gompers, president of the American Federation of Labor, declared in a statement to-day. He recommended that instead of lengthening working hours to meet Government war demands, employers take greater care to provide steady employment and wealthy persons reduce their corps of servants.

* * *

At the Ninth Annual City Planning Conference, it was unanimously voted to change the loosely organized Conference into a City Planning Institute. A constitution was adopted and the following officers elected: President, Frederick Law Olmsted; secretary, Flavel Shurtleff. The offices continue at 19 Congress street, Boston.

* * *

National Housing Association, Chicago, October 15 to 17, 1917. Headquarters, Hotel La Salle. For information inquire of Lawrence Veiller, secretary, 105 East Twenty-second street, New York City.

* * *

President Mauran has appointed the following to serve as a committee to represent the Institute in the Industrial Safety Commission: Messrs. Owen Brainard, Elmer C. Jensen, D. Everett Waid, with Robert D. Kohn as chairman and the president as member ex-officio.

* * *

The Central Committee on Preparedness of the A. I. of A. has continued its work of classifying and card indexing the replies received from the circular letter sent out last month. There follows a supplementary list of those architects who are now attached to the military service. John Davis Hatch, San Francisco, Cal., Lieutenant, Coast Artillery, N. G. of Cal.; Harold M. Kingston, Rochester, N. Y., Troop H, 1st N. Y. Cavalry; Sherley W. Morgan, Princeton, N. J., Co. L, 2nd N. J.

Infantry; Herbert A. Blogg, Seattle, Wash., applied for O. R. C.; Harold W. Doty, Portland, Ore., N. G. of Ore.; Hermann Wischmeyer, Louisville Chapter, Class of Instruction, Engineer O. R. C.; Charles F. Norris, Gary, Ind., Sergeant, Co. F., 1st Ind. Infantry; Arthur B. Drake, Key West, Fla., Ensign, U. S. N. R.; A. E. Sprackling, Cleveland, Ohio, Past Commander, Cleveland Grays; Charles Werner, Brooklyn, N. Y., O. R. C.; George E. Parsons, Boston, Mass., 1st Corps Cadets, N. G. of Mass.; Harrison H. Atwood, Jr., Boston, Mass., 1st Corps Reserve, N. G. of Mass.; Alex. G. Donaldson, Michigan Chapter, Chief Boatswain, Lake Patrol Service.

* * *

Architects and builders have generally come to the realization that there is to be no advantage gained by further waiting for a recession in the prices of structural materials. While the feeling is strong in some quarters that the top of the market has been about reached and that prices cannot possibly be advanced much further, there is also a conviction that there will be no general recession in prices for the next four or five years, if then. The consensus of opinion in the building trades is now that high prices are with us for a long stay and no matter what occurs to reduce them temporarily, they can never return to the low levels of former years.

* * *

W. R. Grace & Co., of New York, through its technical department, is contemplating the extension of their activities through the foreign branches, in construction materials, both engineering and architectural. The technical department desires catalogues and price information pertaining to these classes of materials.

* * *

Whether the present war continues for one or two years or is ended in a few months, there is every likelihood that the high prices of building materials will be maintained at approximately the present levels. Foreign buying will continue to be a strong feature of the market for many years to come, and it is generally conceded that a large proportion of the immense quantities of structural materials and building supplies necessary for the reconstruction of destroyed cities and towns will have to be the product of American manufacturers. Already the manufacturers of certain lines of building commodities have realized this fact and have undertaken elaborate preparations to handle the demand from these quarters. Steel and lumber will be in particular demand by European governments after the war and the foreign orders will exert a strong influence on maintaining the prices of these important products.

* * *

Announcements of new Government contracts awarded and a large amount of additional work in prospect for training camps and cantonments are doing considerable to hearten the building trades. This character of building is rapidly becoming one of the most important elements to the builders and will assist largely in stabilizing conditions.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Fifty-eighth and Woodland avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, F. Gibson McIlvaine & Co., on premises. Stone, brick and reinforced concrete, 2 stories, 47x32 feet, slag roof (lighting reserved), hot water heating, maple floors, marble and terrazzo work, hollow metal sash, metal lath, kalamein doors, safety treads, ornamental iron work, wire work. Architects have received bids.

Residence (alt. and add.), 430 West Chestnut street, Chestnut Hill, Philadelphia. Architect, Frank H. Rommell, Weightman Building, Philadelphia. Owner, C. C. Tutwiler, on premises. Stone and shingle, 2½ stories, 64x35 feet, shingle roof, warm air heating, electric lighting, tile and marble work, hardwood floors. Architect taking bids, due June 11th. Stokes Bros., 6723 Musgrave street; Wolverton & Collins, 28 East Willow Grove avenue; H. E. Grau Co., 1707 Sansom street, and A. R. Raff Const. Co., 1635 Thompson street, are figuring.

Schools (various) (alts.), Philadelphia. Architect, J. Horace Cook, Nineteenth above Chestnut street. Owners, City of Philadelphia, Board of Education, Nineteenth above Chestnut street. Consists of interior alterations, new partitions, mill work, plastering, metal lath, painting, cement paving and iron railings (plumbing separate bid). Owners taking bids, due June 7th at noon. Wm. A. Christy, 2202 South Broad street; Geo. Dobbin Co., 414 South Forty-first street; E. C. Durell, 1713 North Twenty-fourth street; John H. Jordan, Thirty-first and Oxford sts.; Mitchell Bros, 2125 Race street, and Standard Const. Co., 1713 Sansom street, are figuring.

Warehouse, southwest corner Fifth and Willow streets, Philadelphia. Architect, not selected. Owners, Colburn Co., 110 North Second street, Philadelphia. Reinforced concrete and brick, 8 stories, 20,000 feet. Will select architect in a few days.

Warehouse, 1017 Callowhill street, Philadelphia. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owners, R. A. Humphry's Sons, Sons, 1021 Callowhill street. Brick, steel and concrete, 1 story, 20x120 feet, slag roof, cement floors, electric lighting, steam heating. Plans in progress. Architect will take bids in about one week.

Sub-Station "A" (alt. and add.), Schuylkill avenue and Christian street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets. Reinforced concrete, brick and steel, 1 story, 64x54 feet, slag roof (heating and lighting reserved), plank floors, tile work, rolled steel sash, waterproofing, wire work. Owners taking bids, due June 7th. F. W. Van Loan, Denckla Building; H. E. Baton, Twelfth and Sansom streets, and John R. Wiggins & Co., Otis

Building; F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Studio (alt. and add.), 1518-20 Waverly st., Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Dr. M. W. Zimmerman, 1522 Locust street, Philadelphia. Brick and stucco, 3 stories, addition 21x21 feet, tin roof, pine and cement floors (heating and lighting reserved), tile work, hollow metal sash and skylights, metal lath. Architects taking bids, due June 7th. F. B. Davis, 240 North Sixteenth street; T. C. Trafford, 1613 Sansom street; Milton S. Grawl, Bulletin Building; Hayes-Mendenhall Co., Drexel Building, and Wilbert O. Springer, 1624 Latimer street, are figuring.

Garage, 2019 North Seventeenth street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Wm. A. Biren, on premises. Brick, 1 story, 21x25 feet, slag roof, cement floors. Plans in progress. Architects will take bids in a week.

Convenience Station, Westmoreland Park, Philadelphia. Architect, Jos. A. Poletter, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, room 113, City Hall. Brick and stucco, 24x10 feet and 13x8 feet, slate roof, cement floors, metal lath, hollow metal doors. Owners have received bids.

Caretaker's Lodge, Fifty-third and Botanic avenue. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, room 113, City Hall. Brick and plaster, 2 stories, 30x25 feet, asbestos tile roof, pine floors, metal lath (heating, electric work, plumbing separate bids). Owners have received bids.

Residence (alt.), 1415 North Broad street, Philadelphia. Architect, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Mrs. B. Gimbel, 914 North Broad street, Philadelphia. Brick and stone, 4 and 3 stories, consists of general interior alterations. Plans about completed. Architects will take bids in a few days.

Packing House (fire repairs), Schuylkill avenue and Catherine street, Philadelphia, \$10,000. Architect, not selected. Owners, H. C. Fox & Sons, on premises. Brick, 1½ stories. Immediate restoration contemplated.

Boiler House (add.), 1078 Frankford avenue, Philadelphia. Engineer, M. Ward Easby, Crozer Building, Philadelphia. Owners, G. & H. Barnett, on premises. Brick and steel, 1 story, 30x70 feet, slag roof, belgium block floors (heating and lighting reserved), rolled steel sash. Plans completed. Engineer taking sub-bids.

Garage, Fifty-ninth and Springfield avenue. Architect, Joshua C. Jefferis, 1001 Chestnut street, Philadelphia. Owner, Geo. W. A. Keppel, Fifty-ninth and Springfield avenue. Brick, frame and stucco, 1 story and basement, 21x20 feet and 7x4 feet, tin roof, ce-

ment floors, electric lighting (heating reserved), hollow metal sash, metal lath, waterproofing, wire work. Architect has received bids.

Wall and Fence, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Govt., care of Col. Geo. Montgomery, Commanding officer, Frankford Arsenal, Philadelphia. Brick, stone and steel, electric lighting, waterproofing, ornamental iron work. Owners have received bids.

Residences (2), 1904-06 South Fourth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Jacob Edelstein, northwest corner Fourth and Morris streets. Brick, 3 stories, 16x50 feet, slag and tin roof, pine floors, hot air heating, electric lighting, tile work. Owner taking bids. I. Gold, 2028 South Fifth street, is figuring.

Garage, Sixteenth street below Diamond st., Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Mrs. P. A. Muller, 2014 North Sixteenth street, and W. S. Rickard, Seventeenth and Fountain sts., Philadelphia. Brick (slow burning), 3 stories, 60x90 feet and 40x80 feet, slag roof, steam heating, electric lighting, cement and pine floors, elevator, gasoline storage system. Plans in progress. Architect will take bids in a week.

Hotel, 215 South Broad street, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Daniel J. Kopp, 6335 Baltimore avenue. Plans in progress. Too early for details.

Apartment House, 1414-16 Spruce street, Philadelphia. Architects, Hoffman Company, Finance Building, Philadelphia. Owners, Samuel D. Lit and Jacob D. Lit, Eighth and Market streets, Philadelphia. Stone, brick, steel and terra cotta. Sketches in progress. Too early for details.

Factory and Office Building, State Road and Levick street, Philadelphia. Engineer, M. Ward Easby, Crozer Building, Philadelphia. Owners, Plexus Tire and Rubber Co., care of engineer. Brick (slow burning), 1 and 2 stories and basement, 125x60 feet, slag roof, cement floors, metal lath, rolled steel sash, fire doors, roof ventilators. Plans completed. Engineer ready for sub-bids.

Sunday School, Island Road and Lyons avenue, \$10,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Mt. Calvary Presbyterian Church, on premises. Stone, 1 story, 88x60 feet, slate roof, pine and cement floors. Plans completed. Architect ready for bids in a few days.

Office Building, north side of Chestnut street, west of Twelfth street. Architect, Frederick Webber, Morris Building, Philadelphia. Owners, Mershon Bros., Land Title Building, Philadelphia. Brick, stone, steel and terra cotta, 12 stories, 66x145 feet, slag roof, steam heating, electric lighting, tile and marble work, fire doors, cement floors, hollow tile,

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metal lath, elevators, waterproofing. Architect ready for bids.

Show Room and Garage, Fortieth and Utah streets and Westminster avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, H. Burstein & Co., 707-09 Filbert street, Philadelphia. Brick and steel, 42x106x86 feet, 2 stories, slag roof, cement floors, fire doors, electric lighting, steam heating, bulk windows. Plans about completed. Architect will take bids in one week.

Office Building (remodeling), northwest corner of Twelfth and Filbert streets, \$100,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Kahn & Greenburg, Morris Building, Philadelphia. Brick, stone and steel, 9 stories, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, fire doors, cement floors, hollow tile, metal lath, elevators. Plans in progress. Architect ready for sub-bids in a week.

Drip Shed, Girard Point, Philadelphia. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Concrete, steel and corrugated iron, 1 story, 121x180 feet, tile and slag roof, cement floors, rolled steel sash and skylights, roof ventilators. Owners taking bids, due June 12th. Armstrong & Latta, Land Title Building; Brann & Stuart, Commercial Trust Building; Roydhouse-Arey Co., 112 North Broad street; Irwin & Leighton, 126 North Twelfth street; Wark-Yardley Co., 1737 Filbert street; Frank G. Stewart, 1619 Sansom street; Bailey-Lush Co., 201 North Broad street; John N. Gill & Co., Otis Building; John R. Wiggins & Co., Otis Building; Barelay White & Co., 1713 Sansom street; Belmont Iron Works, Twenty-second and Washington avenue, and Driscoll Co., Stock Exchange Building, are figuring.

Paving, Delaware avenue from Reed street to Snyder avenue. Architect, private plans. Owners, City of Philadelphia, Department of Public Works, Geo. E. Datesman, Director, City Hall, Philadelphia. Consists of paving and constructing inlets. Owners ready for bids, due June 12th at noon. Inquire at Room 742, City Hall.

Buildings, Nos. 5, 6, 7, 8, 9 (Alts.), Girard College, Philadelphia. Architect, John

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725-26 Commercial Trust Building, Philadelphia

T. Windrim, Commonwealth Building, Philadelphia. Owner, Girard College, Corinthian and Girard avenues, Philadelphia. Brick and stone, interior alterations, electric lighting, tile work, metal lath, waterproofing, ornamental iron work, grading, fences and roadways. Owners taking bids, due June 7th. F. L. Hoover & Son, 1023 Cherry street; F. W. Van Loon, Denckla Building; H. E. Baton, Twelfth and Sansom streets; Jacob Myers & Sons Co., Witherspoon Building, and F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Sales and Storage Building, 1921 Chestnut street, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Jos. Habisreitering, 1604 Chestnut street, Philadelphia. Brick, 2 or 3 stories. Preliminary plans in progress. Too early for details.

vator. Contract awarded to McLaughlin & McNamara, 3973 Elser street.

Power House, Coral and Wain streets, Philadelphia, \$8,000. Architect, private plans. Owners, Hulton Printing, Processing & Dyeing Co., 3851 Frankford avenue, Philadelphia. Brick and concrete, 1 story, 33x113 feet, slag roof, cement floors (electric work reserved). Contract awarded to F. Crompton & Bro., 4614 Oak Lane avenue.

Warehouse, Frankford avenue and Palmer street, \$20,000. Architect, private plans. Owners, A. Rose & Son, 1831 North Warnock street, Philadelphia. Brick, 3 stories, 117x120 feet, slag roof, steam heating, electric lighting, cement and pine floors. Contract awarded to Bush Hill Const. Co., 2317 Wallace street.

Church, Sunday School (fire repairs), 3925 Walnut street, \$60,000. Architects, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Walnut Street Presbyterian Church, Rev. J. A. MacCallum, pastor, Morris Williams, chairman building committee, Commercial Trust Building. Stone and brick, hollow tile, 1 and 2 stories and basement, 70x164 feet, slate and tin roof (tile aisles, channel furniture, lighting fixtures reserved), steam heating, electric lighting, tile and marble work, rolled steel sash, hollow metal skylights, "Marbleoid" cement, oak and maple floors, metal lath. Contract awarded to Jas. Johnston, 1721 Ludlow street, Philadelphia.

Store (alt. and add.), 846 North Broad st., Philadelphia, \$1,500. Architect, J. E. Fiedstein, 211 Hale Building, Philadelphia. Owner, Sol Hopkins, 1330 Arch street, Philadelphia. Store front, metal bulks, tile and marble work. Contract awarded to Philip Savar, 7168 Snyder avenue, Philadelphia.

Hospital and Refectory Buildings (4) and Power Plant, Byberry, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Bureau of Health and Charities, Dr. William

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Sanitarium (alt. and add.), Chestnut Hill, Philadelphia, \$30,000. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Bella Vista Sanitarium, care of Dr. H. L. Randall, on premises. Stone, 2 stories and basement, addition 32x97 feet (plumbing, heating, lighting fixtures and interior decorating reserved), slate, asbestos and shingle roof, cement, pine and terrazzo floors, electric lighting, metal window guards. Contract awarded to Henry P. Schneider, 3713 Old York road.

Residence (alt. and add.), Wayne avenue and Johnson street, \$33,000. Architects, Duh-

ring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, John D. McIlhenny, 1339 Cherry street, Philadelphia. Stone, 2½ stories, 56x38 feet, tile roof (plumbing, heating, electric lighting, elevator, oak floors reserved), pine floors, tile and terrazzo work, metal lath, waterproofing. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Factory (add.), 4021 Germantown avenue, \$6,000. Architect, private plans. Owners, Edward Noon & Son, on premises. Brick (slow burning), 3 stories, 39x32 feet, slag roof, plank floors, electric lighting, (1) ele-

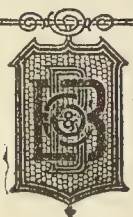
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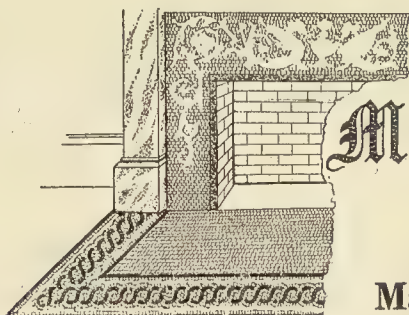


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Krusen, director, City Hall, Philadelphia. Brick, stone, terra cotta and tile, 2½ stories, 222x43 feet, 1 story, 90x64 feet (plumbing, heating and electric work separate bids), slate and slag roof, cement and pine floors, marble and terrazzo work, metal lath, hollow metal skylights, safety treads, metal window guards, iron stairs, ornamental iron work, dampproofing, wire work. Contract for hospital and refectory buildings (4) awarded to F. W. Mark Const. Co., Finance Building, Philadelphia, \$929,200; power plant awarded to Wm. Linker Co., 831 Cherry street, \$76,790.

Garage, 1210-12 W. College avenue, Philadelphia, \$5,000. Architect, private plans. Owners, West Girard Agency, 2525 W. Girard avenue. Brick, 1 story, 30x82 feet, slag roof, cement floors (heating, electric work and gasoline storage system reserved), hollow metal skylights. Contract awarded to J. Sims Wilson Co., 1125 Brown street, Philadelphia.

Garage, Second and Westmoreland streets, Philadelphia, \$1,800. Architect, private plans. Owners, Thos. E. Brown & Sons, Second and Westmoreland streets. Brick and steel, 1 story, 26x24 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to Conneen Const. Co., 1737 Filbert street.

Laboratory Building (fire repairs), Ridge avenue and Laboratory Hill, Philadelphia, \$25,000. Architect, private plans. Owners, Powers-Weightman, Rosengarten Co., 916 Parrish street. Brick, 2 and 1 story, slag roof, wood floors. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Forge Shop, Delaware avenue and Buckius street, \$6,000. Architect, private plans. Owners, Penna. Forge Co., Wakeling and Frankford avenue. Brick and steel, 1 story, 60x105 feet, slag roof, plank floors. Contract awarded to Edw. T. Bender, 6014 Torresdale avenue.

Garage, Forty-eighth and Chestnut streets, Philadelphia, \$25,000. Architect, private plans. Owner, Joseph W. Peoples, 215 S. Farragut Terrace, Philadelphia. Brick, 1 story, 50x200 feet, slag roof, steam heating, electric lighting, cement floors, hollow metal skylights, gasoline storage system. Contract awarded to Augustus A. Hartman, 222 Cedar avenue, Merchantville, N. J.

Gauge and Tool Shop, Ninth and Tioga streets, Philadelphia, \$8,000. Architect, private plans. Owners, J. F. Johnson & Co., 2317 North Sixteenth street, Philadelphia. Brick and steel, 2 stories, 114x30 feet, slag roof, pine and cement floors (lighting and heating

reserved). Contract awarded to F. U. Birkelback, 4608 Richmond street, Philadelphia.

Store Building (alt.), 416 Market street, Philadelphia. \$4,500. Architect, private plans. Owner, Estate of John M. Schwehm, 13 Wistar street, Germantown. Brick, alterations to 1st floor, pine floors, combination lighting, metal lath, flush bulks, metal ceilings. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Drug Store and Apartments (alt. and add.), Forty-first street and Girard avenue. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Frank Egendorf, Fourth and Lombard streets, Philadelphia. Brick, 3 stories, add. 1 story, 20x15 feet, slag roof, steam or hot water heating, electric lighting, tile work, flush bulks, hardwood floors, metal lath, metal ceilings. Contract awarded to J. Gorchov, 4116 Girard avenue, Philadelphia.

Residence, 608 East Girard avenue, Philadelphia. \$3,000. Architect, private plans. Owner, Howard J. Saeger, 2506 Richmond street, Philadelphia. Brick, 3 stories, 16x43 feet, slag roof, hot water heating, tile work, combination lighting, hardwood floors. Contract awarded to Philip Haibach Construction Co., Twenty-sixth and Thompson streets, Philadelphia.

Garage, Stable and Boiler Room, 6048 Larchwood avenue, Philadelphia. \$2,500. Architect, private plans. Owner, Jas. C. Alvin, on premises. Brick and concrete, 1 story, 48x20 feet, slag roof, cement floors, electric lighting (heating, reserved), roof ventilator. Contract awarded to John P. Fallon, 449 South Sixtieth street, Philadelphia.

Workmen's Cottages and Stable, Chestnut Hill, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Geo. D. Widener, Land Title Building, Philadelphia. Brick, hollow tile and plaster, 1½ stories, 107x30x20 feet, tin and shingle roof, hot water heating, cement and pine floors, metal lath, dampproofing, tile work (lighting fixtures, weatherstrips and lighting, reserved). Contract awarded to Geo. F. Payne Co., 401 South Juniper street, Philadelphia.

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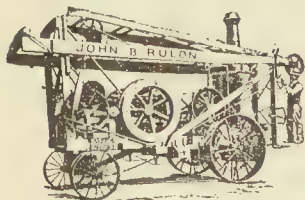
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PENNSYLVANIA Construction News

Domestic Hall (Morris Lasker), Doylestown, Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, The National Farm School, Doylestown, Pa. Stone, brick and plaster, 2½ stories, 35x122 feet and 28x44 feet (heating and lighting reserved), slate roof, oak and pine floors, tile and marble work, fire doors, metal lath, roof ventilators, waterproofing, ornamental iron work. Architect has received bids.

School, Montgomery and Penn avenues, Wynnewood, Pa. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owners, Montgomery School, care of Rev. Gibson Bell, on premises. Frame and shingle, 2 stories, 31x74 feet, tile or shingle roof, hot water heating, electric lighting, pine and tile floors, metal weatherstrips. Owner has received bids.

Church and Sunday School, Quarryville, Lancaster Co., Pa. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, Methodist Episcopal Church, Quarryville, Lancaster Co., Pa. Stone, 1 story. Preliminary plans in progress.

Residence and Stable (alt. and add.), Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owners, David L. Silverman, 1721 North Fifty-second street. Stone, frame and plaster, 2½ and 2 stories, slate roof, hot water heating, electric lighting, tile work, hardwood and pine floors. Architect taking bids, due June 7th. J. Paul Emery, North Wynnefield, Philadelphia, and W. John Stevens, Inc., Wyncote, Pa.; Specht & Sperry, Heed Building, are figuring.

Gate House, Chester, Pa. Architect, W. G. Eckles, New Castle, Pa. Owners, Sun Shipbuilding Co., Finance Building, Philadelphia. Brick, 1 story, 110x49 feet (lighting and heating reserved), composition roof, cement floors, metal lath, rolled steel sash, hollow metal skylights, fire and kalamein doors, ornamental iron work. Owners taking bids, due as soon as possible. Wm. Provost, Chester, Pa.; Arthur Machin Co., Chester, Pa.; James H. Wells, Otis Building, and H. E. Baton, Twelfth and Sansom streets, Philadelphia, additional bidders.

Residence, Moylan, Pa. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, name withheld. Stone, frame and plaster, 2½ stories, 30x50 feet. Plans about to be started.

Freight Station, Parnassus, Westmoreland Co., Pa. Architects, M. of W. Dept., room 361, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick, concrete foundations, 1 story, 40x20 feet, slag roof, maple and wood

block floors. Plans completed. Owners, care of C. E. Zortman, Div. Engr., Conemaugh Div., 1003 Penna. avenue, Pittsburgh, Pa., will take bids.

Office, Hazleton, Pa. Architect, Geo. F. Schroeder, Wilkes Barre, Pa. Owners, Hazleton Produce Co., Hazleton, Pa. Brick, 1 story, 20x30 feet, steam heating. Owner has received bids.

Factory Building, Wilkes Barre, Pa., \$10,000. Architect, Frank Sahn, Second National Bank, Wilkes Barre, Pa. Owners, Sanitary Cleaning & Dyeing Co., Wilkes Barre, Pa. Brick and concrete, 2 stories, 45x45 feet, slag roof, steam heating, electric lighting, concrete floors, rolled steel sash, fire doors, iron stairs (plumbing reserved). Plans completed. Architect ready for bids.

Double House, Bethlehem, Pa. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, A. J. Malarkey, Bethlehem, Pa. Frame, 2 stories, 24x42 feet, slag roof, hot air heating, electric lighting, wood floors. Owner will sub-let.

Store Front, South Main street, Wilkes Barre, Pa. Architect, Geo. F. Schroeder, Weitzenkorn Building, Wilkes Barre, Pa. Owner, Mr. Davidson, South Main street, Wilkes Barre, Pa. Consists of plate glass, press brick, 3 stories, tile work. Plans completed. Owner ready for bids.

Residences (80), near Wilkes Barre, Pa. Architects, Sturdevant & Poggi, Wilkes Barre, Pa. Owners, Lehigh & Wilkes Barre Coal Co., Wilkes Barre, Pa. Frame, 2½ stories, slate roof, furnace heating, electric lighting, wood floors. Architects taking bids, due June 9th. Nanticoke Const. Co., Nanticoke, Pa.; Shepherd Const. Co., Curtis & Co., E. T. Long & Co., A. M. Hildebrand, Kehoe & Mowery and Wilson & Smith, all of Wilkes Barre, Pa.; John Boden, Ashley, Pa., and H. W. Ruggles, Kingston, Pa., are figuring.

Store and Apartments, Berwick, Pa., \$25,000. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre, Pa. Owner, name withheld. Brick, 2 stories, 60x180 feet, composition roof, steam heating, electric lighting, wood floors, metal lath (store fixtures reserved). Architects have received bids.

Silk Mill, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Geo. W. Frisbie, Scranton, Pa. Brick and concrete, 2 stories and basement, 62x112 feet, slag roof, steam heating, electric lighting, elevators. Plans completed. Architect and owner ready for bids.

Schools (2) and Boiler House, Old Forge, Pa. Architects, Duckworth Bros., Coal Ex-

change Building, Scranton, Pa. Owners, School Board of Old Forge, Old Forge, Pa. Wood, reinforced concrete and brick, 1 story (4 rooms each), slag roofs, steam heating. Owners ready for bids.

Bank (alt. and add.), Wyoming avenue, Scranton, Pa., \$70,000. Architect, Edw. Langley, Scranton Life Building, Scranton, Pa. Owners, Third National Bank, Scranton, Pa. Limestone, brick and hollow tile, 1 and 3 stories, 67x80 feet, Barrett roof (plumbing and bank fixtures reserved), city steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash, bank fixtures, metal bulks, marble floors, hollow tile, metal lath, metal window guards, ornamental iron work. Plans completed. Architect ready for bids.

Factory (add.), Williamsport, Pa. Architects, Stearns, Woodnutt & Schmell, Stephen Girard Building, Philadelphia, Pa. Owners, Williamsport Furniture Co., Williamsport, Pa. Brick (joist construction), 2 stories, 42x115 feet, slag roof, maple floors (plumbing, heating and electric work reserved), (1) elevator. Plans completed. Owners will take bids.

Schools (2), Miner Mills, Pa., \$100,000. Architect, not selected. Owners, School Board of Miners Mills, Peter Mayoek, secretary of board, Miners Mills, Pa. Work contemplated.

Church and Sunday School, Stroudsburg, Pa., \$25,000. Architects, Newberry & Foster, Miners Bank Building, Wilkes Barre. Owners, First Presbyterian Church, Stroudsburg, Pa. Brick, 2 stories and basement, 60x60 feet, slag roof, yellow pine floors, steam heating, electric lighting. Plans in progress.

Residence (alt. and add.), South Washington street, Wilkes Barre, Pa. Architect, A. L. Reilly, Bennett Building, Wilkes Barre, Pa. Owner, Dr. N. L. Scheppert, South Washington street, Wilkes Barre. Brick, 20x30 feet, slag roof, steam heating, electric lighting, yellow pine floors. Architect ready for bids.

Store Building, Hazleton, Pa. Architect, Geo. F. Schroeder, Wilkes Barre, Pa. Owner, Clarence Sasso, Hazleton, Pa. Brick, 2 stories, 91x75 feet, slag roof, electric lighting, wood floors, tile work, metal lath, (2) elevators, metal bulks, metal ceilings. Owner taking sub-bids.

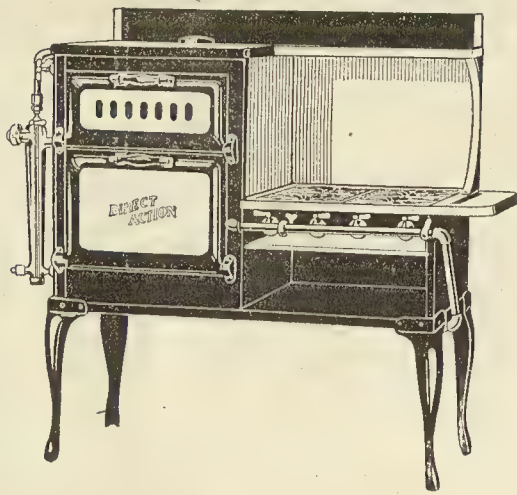
Garage, Wilkes Barre, Pa. Architect, Geo. F. Schroeder, Wilkes Barre, Pa. Owner, Geo. Wilmot, Wilkes Barre, Pa. Brick and concrete, 1 story, 20x30 feet, slate roof, steam heating, electric lighting, concrete floors, gasoline storage system. Plans in progress.

Comfort Stations (2), Scranton, Pa., \$10,000. Architects, Duckworth Bros., Scranton, Pa. Owners, Department of Public Works, City of Scranton, Scranton, Pa. Marble, 1 story irregular, electric lighting, tile work, marble floors, ventilating system, plumbing. Plans in progress.

Fire House, Scranton, Pa., \$20,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owner, City of Scranton, Department of Public Safety, Scranton, Pa. Hollow tile and stucco, 2 stories, 40x100 feet, slate roof, concrete and wood floors, electric lighting. Plans in progress.

School, Dunmore, Pa., \$40,000. Architect, J. J. Howley, Scranton, Pa. Owners, School Board of Dunmore, Dunmore, Pa. Frame, 2 stories (6 rooms and auditorium), slate roof, steam heating, electric lighting, yellow pine floors. Plans in progress.

Administration Building, Richmond Hill, Scranton, Pa. Architect, Fred A. Nelson, Connell Building, Scranton, Pa. Owners, John School, Richmond Hill, Scranton, Pa. Brick, 3 stories, irregular, slate roof, steam heating



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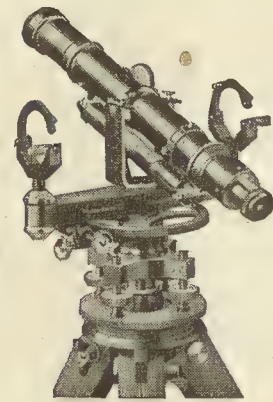
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(central plant), electric lighting, tile work. Plans in progress.

School, Locust Gap, Northumberland Co., Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education of the School District of Mt. Carmel Township, Northumberland Co., Pa. Brick and stone, 3 stories and basement, 79x139 feet, slate or asbestos shingle roof, maple, pine, gum, cement and asphalt floors (steam heating, ventilating, plumbing, electric work reserved), tile and marble work, hollow metal skylights, kalamein doors, metal lath, enameled and tapestry brick, safety treads, roof ventilators, metal ceilings, dampproofing. Owners taking revised bids, due June 13th. Shamokin Lumber Co., Shamokin, Pa., and Mt. Carmel Lumber Co., Mt. Carmel, Pa., are figuring.

Motion Picture Theatre (remodeling), Harrisburg, Pa. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, P. Magaro, care of Regent Theatre, Harrisburg, Pa. Brick, stone, steel and terra cotta, cement floors, electric lighting, tile and marble work, metal lath. Plans completed. Owner will take bids.

Garage, Carpenter and Cherry streets, Reading, Pa. Architect, C. J. Young, Washington street, Reading, Pa. Owners, Penn Trust Co., Reading, Pa. Brick, galvanized iron and steel, 1 story, 60x90 feet, slag roof, concrete floors, hot water heating, electric lighting, fire doors, gasoline storage system. Owners ready for bids.

Store and Apartments, North Washington street, Wilkes-Barre, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, James Gabriò, North Washington street, Wilkes-Barre, Pa. Brick, 3 stories, 22x70 feet, slag roof, steam heating, electric and gas lighting, yellow pine floors, metal lath, dampproofing. Plans completed. Architect ready for bids.

Country Residence, Pennside, Reading, Pa. Architect, L. D. Lance, Reading, Pa. Owner,

Harry Dickinson, Reading, Pa. Stone and frame, 2½ stories, 39x32 feet, shingle roof, hot water heating, tile work, hardwood floors. Plans completed. Owner taking sub-bids.

Residences (115), Lebanon, Pa. Architects, Stetler & Mengel, Reading, Pa. Owners, Lebanon Chamber of Commerce, Lebanon, Pa. Brick and frame, 1½ stories, 14x42 feet composition roof, yellow pine and maple floors, hot air heating, electric lighting. Plans in progress.

Church, Buckley, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, Congregation of St. Paul's Reformed Church, Buckley, Pa. Stone, 1 story and basement and gallery, 65x115 feet, slate roof, steam vapor heating, electric lighting, maple floors. Owners ready for bids.

Mine Storage Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief of Navy Department, Washington, D. C. Brick, hollow tile, steel and plaster, 1 story, 48x160 feet, slag roof, concrete floors, rolled steel sash, roof ventilators, waterproofing and dampproofing (electric work, separate bids). Owners taking bids, due June 11th, at 11 A. M. Conneen Construction Co., 1737 Filbert street; Irwin & Leighton, 126 North Twelfth street; H. E. Baton, Twelfth and Sansom streets, and McCloskey & Bahls, 1620 Thompson street, Philadelphia, are figuring.

Residence (add.), Rosemont, Pa. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Edwin H. Fitler, Bellevue Court Building, Philadelphia. Stone and stucco, 3 stories, 23x42 feet, composition shingle roof (hot water heating, extension, reserved), electric lighting, tile work, marble work, pine and hardwood floors. Architect taking bids, due June 15th. F. E. Wallace, 1220 Chancellor street; E. R. Hall & Bro., 34 South Seventeenth street; J. Sims Wilson Co., 1125 Brown street, and Alan G. Smith, 2135 North Sixty-third street, Philadelphia, are figuring.

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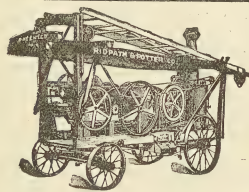
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Residence (alt.), and Garage, Ridley Park, Pa., \$20,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, Geo. C. Hetzel, Swarthmore avenue, Ridley Park, Pa. Stone, brick, hollow tile and plaster, 2½ and 2 stories, 30x20 feet, new slate

roof (gasoline tank, hot water heating and electric lighting, reserved), tile work, oak, yellow pine and cement floors. Builders, Pomeroy Construction Co., 1609 Ranstead street, taking sub-bids, due June 8th.

PENNSYLVANIA

Contracts Awarded

Laundry Building, Chester, Pa., \$20,000. Architect, Wallace E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, Troy Laundry Co., Second and Edward streets, Chester, Pa. Brick, 1 and 2 stories, 180x60 feet, slag roof (heating and plumbing reserved), cement and pine floors, electric lighting, rolled steel sash, hollow metal skylights, metal lath, elevators. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building.

Private School, Bryn Mawr, Pa., \$35,000. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, C. M. Harcum, Montgomery avenue, Bryn Mawr, Pa. Stone, 3 stories and basement, 40x75 feet, slate roof, vapor heating, electric lighting, tile work, oak floors. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Farm House (alt. and add.), Marple Township, Del. Co., Pa., \$6,000. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Norman Cantrell, Wynnewood road, Ardmore, Pa. Stone and brick, 2 stories, 18x17 feet, shingle roof, oak and pine floors (plumbing, lighting, heating not decided reserved), tile work, metal lath. Contract awarded to Roger Atkinson, Builders Exchange, Philadelphia.

School (add. 4 rooms), Trucksville, Pa. Architect, Frank Sahn, Second National Bank Building, Wilkes Barre, Pa. Owners, School

Board of Trucksville, Trucksville, Pa. Frame, 2 stories, slag roof (heating, ventilating, electric work and plumbing reserved), direct and indirect system of heating, yellow pine floors. Contract awarded to A. D. Hildebrand, Wilkes Barre, Pa.

Cottage, Harveys Lake, Pa. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, name withheld. Stone, 2 stories, 50x30 feet, shingle roof, wood floors, hot air heating, electric lighting. Contract awarded to E. T. Long, Wilkes Barre, Pa.

Fire House, Olyphant, Pa., \$20,000. Architect, John J. Hawley, Traders Bank Building, Scranton, Pa. Owners, Borough Council, Olyphant, Pa. Brick, 2 stories, 30x66 feet, slate roof, cement floors, electric lighting. Contract awarded to Dickson Lumber Co., Dickson, Pa.

High School, Throop, Pa., \$100,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board of Throop, Throop, Pa. Brick, 2 stories and basement, 20x200 feet, slag roof, steam heating, metal lath and sash, waterproofing and dampproofing, fire doors, ventilators, hollow tile, composition floors, metal lockers, weatherstrip, cabinet work. Contract awarded to Boland Bros., Scranton, Pa.

First National Bank (add.), Scranton, Pa. Architect, R. W. Snyder, Title Guarantee Building, Scranton, Pa. Owners, First National Bank, Scranton, Pa. Steel and concrete, 2 stories, 25x100 feet, Barrett roof,

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marble and concrete floors, electric lighting, marble work, hollow tile, metal lath, bank fixtures, roof ventilators, waterproofing. Contract awarded to S. Sykes & Sons Co., 218 Larch street, Scranton, Pa.

Shop Building, Richmond Hill, Scranton, Pa. Architect, Fred A. Nelson, Connell Building, Scranton, Pa. Owners, Johnson School, Scranton, Pa. Brick, 3 stories, 120x60 feet, slag roof (heating reserved), electric lighting, maple floors. Contract awarded to Freda & Carlucci, Scranton, Pa.

Power House and Cistern, Yeadon, Delaware Co., Pa., \$20,000. Architect, Jesse T. Hoekstra, 3612 South Eighty-fourth street, Philadelphia. Owner, Theodore Presser, 1712 Chestnut street, Philadelphia. Brick, steel, concrete and stone trimmings, 1 story, 66x96 feet, slag roof, concrete floors, metal lath (lighting and flooring reserved), metal lath, iron stairs, waterproofing. Contract awarded to Wills-Ludwick Co., 34 South Seventeenth street, Philadelphia.

Residence (alt. and add.) and Garage, St. Davids road, St. Davids, Pa., \$6,000. Architect, R. C. Owen, 3800 Spruce street, Philadelphia. Owner, Daniel C. Stewart, 301 Midland avenue, Wayne, Pa. Stone and stucco, 3 stories; garage, 1 story, 33x24 feet, slate roof (heating reserved), composition, hardwood and cement floors, tile and marble work, hollow tile, wire work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Church, Providence, Scranton, Pa. Architect, R. W. Snyder, Scranton, Pa. Owners, St. John's Episcopal Church, Scranton, Pa. Stone, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting, yellow pine floors. Contract awarded to Wm. Perry, Scranton, Pa.

Residence (alt. and add.), Mt. Moro Road and Spring Mill Lane, Villa Nova, Pa., \$2,000. Architect, private plans. Owner, Mrs. James Martin, Bellevue-Stratford Hotel, Philadelphia. Brick, second story addition 15x15 feet, shingle roof, plumbing, painting, elec-

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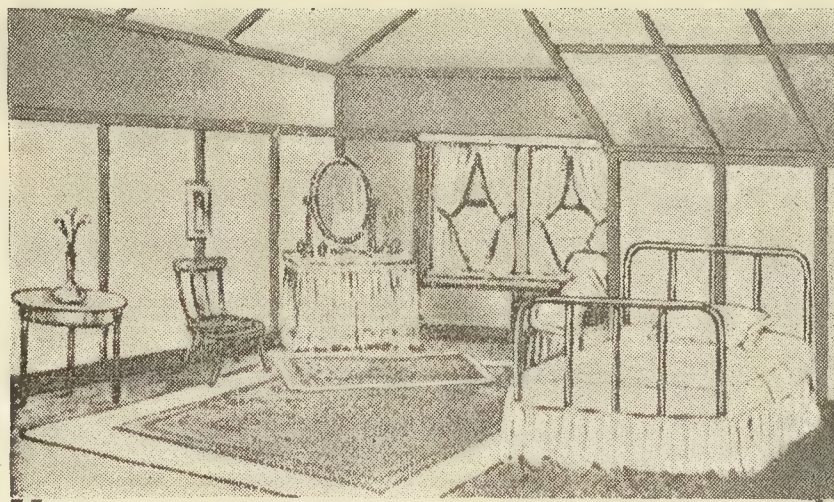
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Northwest Corner 19th and Cambria Streets

tric lighting, tile work. Contract awarded to
Milton W. Young, Overbrook, Philadelphia.

Hotel, Third and Walnut streets, Harris-
burg, Pa., \$1,000,000. Architect, W. L. Stod-
dard, 9 East Fortieth street, New York City,
and Esenwein & Johnson, Buffalo, N. Y. Own-
ers, Penn-Harris Hotel Co., care of E. Z. Wal-
lower, President, Harrisburg. Reinforced
concrete, terra cotta and stone, 12 stories, 104
x130 feet, composition roof, steam heat, elec-
tric light, tile, marble and terrazzo work,
rolled steel sash and skylights, hollow metal
skylights, fire, kalamein and hollow metal
doors, dampproofing and waterproofing, fire
escapes, ornamental iron work, maple, cement
and pine floors, hollow tile, metal lath, eleva-
tors, roof ventilators, metal window guards,

wire work. Contract awarded to Nelson &
Lewin, 30 La Salle street, Chicago.

Stores (2) and Apartments, Media, Pa.,
\$10,000. Architect, private plans. Owner, T.
Ellwood Allison, Wallingford, Pa. Brick, 2
stories, 33x50 feet, slag roof, steam heating,
electric lighting, tile work, pine floors, metal
lath, flush bulks. Contract awarded to Jas.
B. Flounders, 1329 Arch street, Philadelphia.

Farm House (alt.), Pine Forge, Bucks Co.,
Pa., \$6,000. Architect, Robert W. Pollock,
202 Chestnut street, Philadelphia. Owner,
Mrs. David Rutter, Pine Forge, Bucks Co.,
Pa. Frame and stucco, 2½ stories, asphalt or
wood shingle roof, hot water heating, plumb-
ing, tile work, metal lath. Contract awarded
to F. H. Kaiser & Co., Pottstown, Pa.

Camden, N. J. Brick and steel, 3 stories and
basement, tin roof, hot water heating, electric
lighting, hollow metal skylights, kalamein
doors, cement and asphalt floors, metal lath,
ornamental iron work. Owners taking bids,
due June 11th. Evans Const. Co., 9 South
Eighteenth street; Wills-Ludwick Co., 34 S.
Seventeenth street; Barclay White & Co., 1713
Sansom street, Philadelphia; Geo. Bachman,
19 South Thirtieth street, Camden, N. J., and
Fred Lange, Audubon, N. J., are figuring.

Residence, Riverton, N. J. Architects,
Morris & Erskine, Crozer Building, Philadel-
phia. Owner, Robert Robertson, 5738 Pine
street, Philadelphia. Frame, 2½ stories, 37x
37 feet, shingle roof, pine floors, electric light-
ing, tile work, metal lath (plumbing and heat-
ing reserved). Owner taking approximate
bid from Wills-Ludwick Co., 34 South Seven-
teenth street, Philadelphia.

Store and Apartments, Trenton, N. J.,
\$7,000. Architect, J. P. Pette, 131 Jackson
street, Trenton, N. J. Owner, Andrew Met-
chaowski, on premises. Brick, 2 stories, 65x
25 feet, slag roof, yellow pine floors, hot water
heating, electric lighting. Architect taking
bids, due June 13th. Lansy & Brown & Alex.
Majewski, both of Trenton, are figuring.

Fire Escape, State Hospital, Trenton, N. J.
Architect, F. H. Bent, State Capitol, Tren-
ton, N. J. Owners, Board of Managers, State
Hospital, Trenton, N. J. Consists of concrete
floors, metal sash, and skylights, fire escapes,
fire and kalamein doors, dumbwaiters, metal
window guards. Architect taking bids. Bur-
ton & Burton, Trenton, N. J., are figuring.

Bank Building, Trenton, N. J., \$75,000.

NEW JERSEY

Construction News

Manufacturing Plant, Camden, N. J. Archi-
tect, not selected. Owners, R. M. Hollings-
head Co., 112 North Ninth street, Camden, N.
J. Extensive additions contemplated.

School, Hamilton Township, N. J., \$40,000.
Architects, W. W. Slack & Son, Trenton, N. J.
Owners, School Board of Hamilton Township,
Mercer Co., N. J. Brick, 2 stories, 8 rooms.
Plans in progress. Too early for details.

Hotel (add.), Atlantic City, N. J. Archi-
tect, H. A. Jacobs, 320 Fifth avenue, New
York City. Owners, Royal Palace Hotel, At-

lantic City, N. J. Brick, steel and concrete,
7 stories, 200x46 feet, slag roof, steam heat-
ing, electric lighting, tile and marble work,
fire and kalamein doors, concrete and hard-
wood floors, hollow tile, metal lath, elevators,
waterproofing and dampproofing. Architect
has received bids.

Alms house (alt.), Asyla, Camden Co., N. J.
Architect, Thos. Stephen, Masonic Temple
Building, Camden, N. J. Owners, Camden Co.
Board of Freeholders, E. Frank Pine, chair-
man building committee, County Court House,

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1927 W. Montgomery Avenue, Philadelphia, Pa.

Architects, Kleeman & Fowler, Trenton, N. J. Owners, Mercer Trust Co., 203 South Broad street, Trenton, N. J. Stone, 1 story, 42x90 feet, slag roof, steam heat, electric light, tile

and marble work, concrete floors, bank fixtures, metal windows and electric fixtures. Architects are sub-letting all contracts.

NEW JERSEY

Contracts Awarded

Garage, Trenton, N. J. Architects, Klee-man & Fowler, Trenton, N. J. Owner, Hugh D. Trout, Trenton, N. J. Hollow tile and stucco, 1½ stories, 21x21 feet, slate roof, cement floors, electric lighting. Contract awarded to C. Y. Barlow, Trenton, N. J.

Stores (2) and Apartment, Vineland, N. J., \$10,000. Architects, Hill & Walls, 738 Real Estate Trust Building, Philadelphia. Owner, G. B. D'Ippolito, Vineland, N. J. Brick, 2 stories, 42x60 feet, tile roof, heating not decided, hardwood and composition floors, elec-

tric lighting, tile work. Contract awarded to Mutual Eng. Co., Franklin Building, Philadelphia.

Fire House, Vineland, N. J., \$9,100. Architects, Hill & Walls, 738 Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, Office of Commissioners, City Hall, Vineland, N. J. Brick, 2 stories, 29x70 feet, Barrett roof (hot water heating reserved), electric lighting, concrete and pine floors. Contract awarded to the Mutual Eng. Co., Franklin Building, Philadelphia.

MARYLAND

Construction News

Garage (alt. and add.), 1033 Cathedral street, Baltimore. Architect, Fred Thomas, Gunther Building, Baltimore. Owner, Frank M. Olmstead, 1007 North Eutaw street, Baltimore. Brick, 1 story, 22x150 feet, slag roof, concrete floor, steam heating, skylights, plumbing, iron work. Plans in progress.

Residence (alts.), Havre de Grace, Md. Architect, Clyde N. Fritz, Munsey Building, Baltimore. Owner, Thos. C. Hopkins, Havre de Grace, Md. Consists of general interior alterations, slate roof, hot water heating, electric lighting, plastering, plumbing, painting, hardwood floors. Plans in progress.

Residence, Towson, Md. Architect, Thomas Bond Owings, 347 North Charles street, Baltimore. Owner, Julian White Ridgely, care of Mutual Life Insurance Co., Union Trust Building, Baltimore. Stone, 2½ stories, 104x550 feet, slate roof, hot water heating, electric lighting. Plans in progress.

Refectory and Dormitory Buildings (5), Sparrows Point, Md., \$125,000. Architect, Edw. L. Palmer, Munsey Building. Owners, Bethlehem Steel Co., care of T. W. Stingley, Sparrows Point, Md. Frame and stucco, 2½ stories, 30x100 feet, slate roofs, steam heating, electric and gas lighting, skylights, ventilators, dampproofing, galvanized iron work, plastering, painting, plumbing, marble, tile,

slate and terrazzo work, hardwood floors, dumb-waiters. Plans in progress.

Warehouse, Leadenhall and West streets, Baltimore, \$50,000. Architect, private plans. Owners, F. X. Ganter Co., Sharp and Ostend streets, Baltimore. Brick, 5 stories, 56x156 feet, slag roof, electric lighting, iron work, plumbing. Plans in progress.

Residences (500), Dundalk, Md. Architect, Edw. L. Palmer, Munsey Building, Baltimore. Owner, The Dundalk Co., Munsey Building, Baltimore. Concrete foundations, hollow tile and stucco, 2½ stories, slate or composition roofs (hot air heating, reserved), combination lighting, dampproofing, concrete floors, plumbing, plastering, painting. Architect taking bids. C. L. Stockhausen Co., Consolidated Eng. Co., Gladfelter & Chambers, E. G. Turner, all of Baltimore, Md.; Wells Bros. Co., and Grant, Smith & Locker, both of New York City; Jas. L. Parsons, Washington, D. C. and J. A. Bader, Wilmington, Del., are figuring.

Office Building, 110-12 E. Lexington street, Baltimore. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore. Owner, Harry B. Wolf, 204 Courtland street, Baltimore. Brick, 2 stories, 50x100 feet, slag roof, concrete work, skylights, dampproofing, plastering, painting, plumbing, marble, terrazzo.

work, ornamental terra cotta, sheet metal, fire doors, glazing. Architect taking bids, due June 8th, at 1 P. M. The following are figuring: West Construction Co., American Building; Walter E. Burnham, Law Building; C. E. Stubs, Equitable Building; Chas. L. Stockhausen Co., Gay and Water streets; Monmonier & Sorrell, 1711 McCulloh, street; Fred Wright, 204 Courtland street, all of Baltimore, Md.

School No. 47, Linwood avenue, Fleet and Streeper streets., Baltimore. Architect, A. C. Leach, 323 North Charles street, Baltimore. Owners, Board of School Commissioners of Baltimore, Baltimore, Md. Brick, steel and concrete, 3 stories, 1466x455 feet, marble or granite trim, ornamental iron work, terra cotta, waterproofing (electric wiring, heating, plumbing and vacuum cleaning system, reserved), metal lath, ventilators, tile, marble work, slate work, plastering. Lowest bidder, Robinson Construction Co. Knickerbocker Building, Baltimore, Md., \$124,900.

Store Building, 1045-47 Light street, Baltimore, Md. Architect, J. C. Spedden, 2715 Harlem avenue, Baltimore, Md. Brick, 4 stories, slag roof, concrete foundations and floors electric lighting, metal ceilings, plastering, plumbing, hardware (heating, reserved). Architects taking bids from Cogswell-Koether Co., 406 Park avenue; H. M. Reinhart Co., Calvert Building; C. E. Stubbs, Equitable Building; J. H. Smith, 1426 Light street, and E. Eyring & Sons, 800 South Third street, all of Baltimore, Md., on 4 story structure. Alternates will be taken on 1 and 2 story structure.

Maryland

Contracts Awarded

Warehouse (add.), Guilford avenue near Pleasant streets, Baltimore. Architect, Chas. M. Anderson, 28 North Charles street, Baltimore. Owner, Kingan Provision Co., 350 North Holliday street, Baltimore. Brick, 3 stories and basement, 39x42 feet, concrete foundations, slag roof (electric work and elevator, reserved) skylights, rolling steel doors, metal lath. Contract awarded to John J. Moylan, Calvert street near Centre street, Baltimore.

Apartment, Windsor Hills, Md. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owner, G. C. Hann, care of Savings Bank of Baltimore, Baltimore, Md. Frame, 2½ stories, 30x56 feet, slate roof, hot water heating, combination lighting, plastering, painting, tile work, hardwood floors, dumb-waiters. Contract awarded to J. H. Smith, 1426 Light street, Baltimore.

Residences (18), Collington avenue and Oliver street, Baltimore, \$45,000. Architect, private plans. Owners, E. J. Gallagher Realty Co., Munsey Building, Baltimore. Brick, 2 stories, slag roof, electric lighting. Owners will sub-let contracts.

Engine House No. 2, Spring Gardens, Md. Architect, private plans. Owner, Consolidated Gas, Electric Light & Power Co., Lexington street Building, Baltimore. Brick, stone trim, 36x67 feet, slate roof, waterproofing, concrete work. Contract awarded to B. F. Bennett Building Co., 123 South Howard street, Baltimore.

Freight Shed, Bond street Wharf, Baltimore, Md. Architects, Owens & Sisco, Continental Building, Baltimore. Owner, Terminal Warehouse Co., Monument street, east of Constitution street, Baltimore. Steel and corrugated

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iron, concrete foundations, 97 feet long, slag roof, fire escapes, skylights, ventilators, sprinkler system (electric work, reserved). Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore.

Garage and Garden, Lake Drive, Md., \$5,000. Architect, Smith & May, Calvert Building, Baltimore. Owner, Ili Oppenheimer, Coca-Cola Building, Baltimore. Brick, 1 story, slag

roof (electric work, reserved). Contract awarded to G. Walter Tovell, Eutaw and McCulloh streets, Baltimore.

Foot Bridge, Indian Head, Md. Architect, private plans. Owner, U. S. Government Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Bascule Type. Contract awarded to Kettler Elliott Erection Co., \$35,253.

DELAWARE

Construction News

Bank Building Sixth and Market streets, Wilmington, Del. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owners, Security Trust Co., Sixth and Market streets, Wilmington, Del. Brick and marble, 2 stories, 52x50 feet, roof undecided, tile floors, vapor heating, electric lighting, tile, marble and terrazzo work, metal lath, waterproofing. Architect ready for bids in a few days.

Stores and Apartment (alt.), 210 W. Seventh street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Nicholas White, 210 W. Seventh street, Wilmington, Del. General interior and exterior alterations. Plans in progress. Too early for details.

Residences (2), Twenty-sixth street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Pierce & Middleton, Wilmington, Del. Brick, 2 stories, 16x20 feet, slag roof, yellow pine floors, hot water heating, electric lighting. Plans completed. Owners taking sub-bids.

Bungalow, Hill Crest, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, A. P. Stevenson, King street, Wilmington, Del. Frame, 1½ stories, 32x55 feet, shingle roof, yellow pine floors. Plans in progress.

Office Building, 1112-14 King street, Wilmington, Del. Architects, Brown & White, Dupont Building, Wilmington, Del.

Owner, George Lodge, Wilmington, Del. Brick and marble, 3 stories, 50x100 feet, tin roof, yellow pine and maple floors, steam heating, electric lighting, tile work, fire escapes. Architects have received bids.

Store and Office Building (alt. and add.), Wilmington, Del. Architects, Brown & Whiteside, Dupont Building, Wilmington, Del. Owner, Alfred E. Moore, Wilmington, Del. Brick, 3 stories, 40x255 feet, slag roof, yellow pine and maple floors, store fixtures. Contract awarded to Tindall & Son, 614 Tatnall street, Wilmington, Del.

Residence (alt. and add.), Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Wm. Wyatt, 1413 Van Buren street, Wilmington, Del. Brick, 2½ stories, slag roof, wood floors, electric lighting. Contract awarded to Chas. H. Tindall & Son, 614 Tatnall street, Wilmington, Del.

Pipe Shop, Rigger Shop and Garage, Wilmington, Del., \$100,000. Architect, private plans. Owners, Harlan & Hollingsworth Corp., Wilmington, Del. Brick and steel on wood piles, 2 stories, 112x50 feet, 1 story, 80x20 feet, and 1 story, 30x50 feet, cement tile roof, concrete floors, metal lath, rolled steel sash (plumbing, heating and lighting reserved). Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Miscellaneous Construction News

Store and Office Building, Syracuse, N. Y. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Fayette Realty Corporation, Syracuse, N. Y. Brick, 3 stories, 66x62 feet, irregular, slag roof, steam heating, electric lighting. Plans about completed. Architect will take bids in two weeks.

Power Houses (2), Navy Yard at Philadelphia, and Norfolk, Va. Architect, private plans. Owners, U. S. Govt., Bureau of Wharves & Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Reinforced concrete and steel, 1 story and mezzanine, 265x97 feet, slag roof (heating, lighting, plumbing and ventilating separate bids), concrete and composition floors, hollow tile, metal lath, elevator, rolled steel sash, fire doors, ornamental iron work, metal window guards, wire work. Owners have received bids.

Shell (2), Magazine and Torpedo Buildings, St. Julians Creek, Va. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Brick and steel, 1 story, (3) 19x49 feet and (1) 155x51 feet, asbestos roof, concrete floors, hollow tile, metal lath, rolled steel sash, fire doors, roof

ventilators, dampproofing, wire work. Owners have received bids.

Gymnasium, Staunton, Va. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, Stewart Hall School, Staunton, Va. Frame, 2 stories, 50x80 feet, shingle roof. Plans in progress.

Freight House and Office Building (add.), Louisiana street, Buffalo, N. Y. Architects, M. of W. Dept., room 361, Broad Street Station, Philadelphia. Owners, Penna. RR Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 2 stories, 420x30 feet, slag roof, pine, composition, maple and cement floors, hollow tile, metal lath, steam heating, electric lighting, marble work, rolled steel sash, rolling steel doors, hollow tile, metal lath, roof ventilators, iron stairs. Plans about completed. Owners, care of Jas. G. Rodgers, general superintendent, Buffalo Div., Brisbane Building, Buffalo, N. Y., will take bids.

Farm Buildings, Marshallton, Del. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, W. Winder Laird, Marshallton, Del. Stucco and frame, 1 and 2 stories, 66x29 feet and 84x31 feet, shingle roof, cement and brick and pine floors, hollow

tile, metal lath, waterproofing, wire work. Architects taking bids, due June 9th. James H. Wells, Otis Building; R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia; Joseph M. Burns, and Plummer Jefferies, both of West Chester, Pa., are figuring.

Church, Fifteenth and Monroe streets, Washington, D. C. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, First Reformed Church, Washington, D. C. Brick and stone, 1 story and basement, 50x80 feet, slate roof, vacuum heating, electric lighting, tile and marble work, pine floors. Contract awarded to Will Kimmell, 1508 Columbia Road, N. W., Washington, D. C.

Permits for New Buildings

Garage, 5315 Thomas avenue, \$800. E. H. Apslen (O and C), 1801 South Fifth street, Brick, 1 story, 9x16 feet, slate roof.

Garage, Hancock and Westmoreland streets, \$1,800. Thos. E. Brown & Son (O), on premises. Conneen Const. Co. (C), 1737 Filbert street. Brick, 1 story, 24x26 feet, cement floor.

Garage, 7248 Rising Sun lane, \$800. Jos. Schmidt (O), on premises. Harry Drake (C), 3139 Frankford avenue. Brick, 1 story, 16x20 feet, slag roof.

Office Building, Duncannon avenue and Mascher street, \$600. Fairmount Foundry Co. (O), on premises. Wm. Reed (C), 5626 Palatka street. Frame, 1 story, 16x24 feet.

Shop, Delaware avenue and Buckins street, \$6,000. Penna. Forge Co. (O), Wakeling and Frankford avenue. Ed. F. Bender (C), 6014 Torresdale avenue. Brick, 1 story, 60x105 feet, slag roof.

Stable, 410-12 Pierce street, \$3,500. Mrs. K. Goldman (O), 410-12 Pierce street. J. Bender (C), 1817 South Fourth street. Brick, 2 stories, 31x67 feet, slag roof.

Yard Building and Signal Tower, Chestnut Hill Freight Yard, Shawnee and Evergreen streets, \$15,000. Penna. R. R. Co. (O), Broad Street Station. Pringle Borthwick (C), 8018 Germantown avenue. Brick, 81x20 feet, one story and basement, slate roof.

Power House, Coral and Wain streets, \$8,000. Hulton Printing, Processing and Dyeing Co. (O), 3851 Frankford Junction. F. Crompton & Bro. (C), 4614 Oak Lane avenue. Brick and concrete, 1 story 33x113 feet, slag roof.

Club House, Second and Jefferson streets, \$11,840. St. Michael Literary Society (O), on premises. D. W. O'Dea (C), 5227 North Fifth street. Brick, 2 stories, 40x40 feet, slag roof, hot water heating.

Warehouse, Frankford avenue and Palmer streets, \$20,000. A. Rose & Son (O), 1831 N. Warnock street. Bush Hill Const. Co. (C), 2317 Wallace street. Brick, 3 stories, 117x120 feet, slag roof, steam heating.

Swimming Pool, Seventeenth and Catherine streets, \$45,000. City of Philadelphia (O), City Hall. Richard P. Bennis (C), Chew and Price streets. Brick and reinforced concrete, 68x177 feet; shelter and supply room, 1 story, 14x63 feet; toilet room, 1 story, 13x9 feet; shower room, 1 story, 12x12 feet.

Factory, Fourth and Cambria streets, \$100,000. Stead & Miller Co. (O), on premises. Ed. Atkins (C), 249 South Twenty-fourth st. Brick, 6 stories, 60x92 feet, pine beams and girders, slag roof, fire doors, fire escape.

Garage, 4938 North Camac street, \$635. Chas. F. Raffetto (O), on premises. Barnes Bros. (C), 2080 E. Willard street. Brick, 1 story, 11x21 feet, slag roof, cement floors. Factory, 618-20 Cherry street, \$85,000. Sam

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P. Wetherill (O), Norris Building. Cramp & Co. (C), 801 Denckla Building. Brick, 6 stories, 31x123 feet, slag roof, steam heating.

Factory, Amber and Venango streets, \$200,000. Gill Glass Co. (O), York and Thompson streets. Wm. R. Dougherty (C), 1610 Sansom street. Brick and concrete, 3 stories, 178x143 feet, slag roof.

Dwellings (23), Sixth and Wingohocking streets, \$46,000. Don Peters (O and C), 4x27 feet, North Eighth street. Brick, 2 stories, 15x23 feet, slag roof, hot air heating.

Garage, 1210-12 West College avenue, \$5,000. West Girard Agency (O), 2525 West Girard avenue. J. Sims Wilson Co. (C), 1127 Brown street. Brick, 1 story, 30x82 feet, slag roof.

Power House, Delaware and Robbins street, \$120,000. Phila. Electric Co. (O and C), 1000 Chestnut street. Steel, frame, brick and concrete, 1 story, 50x100 feet.

Garage, 4644 Hedge street, \$2,000. Chas. Reese (O), 4648 Hedge street. C. C. Cam (C), 1654 Dyre street. Brick, 1 story, 18x118 feet, slag roof.

Garage, Thirteenth and Medary streets, \$375. S. Fagan (O), on premises. J. W. Fritz (C), Thirteenth and Medary avenue. Stone, 1 story, 14x18 feet, cement floors.

Garage, 2144 North Sixty-second street, \$1,000. Jos McGleary (O). Alf. Verdi (C), 6145 West Girard avenue. Brick, 1 story, 23x31 feet, slag roof.

Garages (2), Tulpehocken and Baynton streets, \$4,200. Aera Garage Co. (O), care of Cheltenham Trust Co. Geo. Ruhland Const. Co. (C), 311 Ruscomb street. Stone, 1 story, 18x175 feet and 78x60 feet, slag roof.

Alterations and Additions

Dwelling, 411-13 Moore street, \$1,000. Mrs. K. Goldman (O), on premises. Jacob Bender (C), 1817 South Fourth street. Brick, 3 stories, front, 15x28 feet, slag roof.

Church, 704 North Broad street, \$1,500. Rev. Thos. Park (O), 714 North Broad street. M. L. Conneen (C), 7119 Woodland avenue. Brick, 1 story, 9x12 feet addition, tin roof.

Orphan Asylum, Wyalusing avenue and Forty-ninth street, \$1,200. Archbishop Pendigast (O), Eighteenth and Race streets. James Doyles Sons (C), 878 North Forty-sixth street. Brick, 1 story, 22x24 feet and 15x18 feet, slag roof.

Store and Dwelling, 515 Bainbridge street, \$500. Sol Krowse (O), 512 South Fifth street. Harry Miller (C), 427 Catherine street. New flush bulk.

Dwelling, 275 South Fifty-second street, \$2,600. S. Spector (O), 226 South Fiftieth street. J. Gorehor (C), 4116 Girard avenue. Brick, 15x13 feet, 1 story and basement, interior alteration.

Factory, 1317 Carlton street, \$1,000. R. B. Seidel (O), 927 South Fifty-fifth street. Richards & Showzds (C), 1125 Spring street. Alterations to two-story building.

Ice Cream Stand, Woodside Park, \$1,000. Louis M. Lifter (O and C), 1626 North Fifty-second street. Fire repairs.

Dwelling, 1709 Wallace street, \$500. H. H. Smith (O), 1915 Wallace street. Old Church Co. (C), Twelfth and Cherry streets. Four new bathrooms.

Club Dining Room, Stenton avenue, Mt. Airy, Pa., \$300. Frank Moran (O), on premises. Eugene Tourison (C), 1001 Chestnut st. Interior alterations.

Machine Shop, Summerdale avenue, east Reading RR., \$4,000. Stokes & Smith (O and

C), Summerdale, Philadelphia. Brick, 1 story, 34x27 feet, additions.

Dwelling, 223 Wendover street, \$450. Wm. Levis (O), on premises. M. Derva (C), 4153 Crescent street. Brick, 1 story, 12x16 feet, additions.

Dwelling, 846 North Broad street, \$1,350. Sol Hopkins (O), 1830 Arch street. Philip Savar (C), 718 Snyder avenue. Flush bulk, interior alteration.

Dwelling, 5602 Spruce street, \$1,600. M. Whitley (O), 5551 Walnut street. Sam Rogers (C), 5312 Thompson street. Brick, 1 story addition, 16x6 feet.

Dwelling, 1759 North Third street, \$500. Sam Gibbins (O), 1711 North Second street. Sam S. Sanders & Bro. (C), 519 Richmond st. Brick, 1 story, 12x14 feet.

Dwelling (O), 172 East Cheltenham avenue, \$750. Dom Leone (O), 171 East Cheltenham avenue. A. Warshovsky (C), 543 North Seventh street. Brick, 1 story front addition, 18x14 feet, slag roof.

Hotel, Twelfth and Arch streets, \$7,500. Weightman Est. (O), 1524 Chestnut street. James S. Talley (C), 1931 Market street. Install passenger and freight elevator.

Dwelling, 1415 South Eighteenth street, \$350. V. Cesano (O), on premises. P. Acamposa (C), 1540 Dickinson street. New flush bulk.

Factory, American and Dauphin streets, \$2,000. Abram Cox Stove Co. (O). Wm. Steele & Sons Co. (C), 34x36 South Fifteenth street. Fire repairs.

Store and Dwelling, 1160 South Eleventh street, \$500. L. Natale (O), Wayne, Delaware Co., Pa. N. Bartolomeo (C), 1241 Christian street. Brick, 1 story rear addition, 13x24 feet, slag roof.

Dwelling, 2030 Arch street, \$500. Wm. G. Glenn, Agt (O), Land Title Building. Hugh Hazlett (C), 1701 North Twentieth street. New bathrooms, interior alteration.

Offices, State road and Sanger street, \$2,000. Ed. T. Titler Co. (O), on premises. Chas. A. Collier (C), 4213 Paul street, Frankford. Brick, 1 story, 19x23 feet, new floor.

Garage, Twenty-second and Race streets, \$16,000. H. Fryman (O), on premises. Frank Kerker (C), 1522 South Sixth street. Brick, 2 stories, 55x90 feet.

Store and Dwelling, 244 North Second st., \$1,000. H. Tryman (O), Twenty-second and Race streets. Frank Kerker (C), 1522 South Sixth street. Brick, 3 stories, 16x4 feet.

Stable, Forty-ninth and Brown streets, \$500. H. Bogossian (O), on premises. H. Sadjian (C), Fifty-seventh and Vine streets. Brick, 1 story, 20x15 feet, slag roof.

Dwelling, 641 Cantrell street, \$400. Nat. Tabachnick (O), on premises. Louis Salganich, 439 Winton street. Brick, 2 stories, 12x13 feet, slag roof.

Dwelling, 643 Cantrell street, \$400. R. R. Rechter (O), on premises. Louis Salganich, 439 Winton street. Brick, 2 stories, 12x13 feet, slag roof.

Dwelling, 1622 North Franklin street, \$400. M. Hurewitz (O and C), 831 North Sixth street. New bathroom.

Dwelling, 2212 North Seventh street, \$300. S. Buslick (O), 2215 North Seventh street. L. Goldberg (C), 2322 South Ninth street. Brick, 1 story, 11x14 feet, cement floor, poultry slaughter house.

Dwelling, 3437 North Sixth street, \$1,600. Mrs. M. Schilinsky (O), 2808 North Eleventh street. Otto Malz & Son (C), 2108 Lawrence street. Brick, 2 stories, 12x10 feet, slag roof.

Store and Dwelling, Fifty-ninth and Market streets, \$5,000. Dr. H. A. Larssle (O), on premises. Berman Bros. (C), 6019 Market

street. Brick, 1 story, 16x14 feet, flush bulk.

Factory, Thompson and Huntingdon sts., \$25,000. J. T. Lewis & Bro. Co. (O), Lafayette Building. Turner Concrete Steel Co. (C), 1713 Sansom street. Fire repairs.

Store and Dwelling, 521 South Twelfth street, \$300. Jos. McNulty (O), 3606 Haverford avenue. Jaw H. Faries (C), 719-21 South Twelfth street. Brick, 1 story, 8x12 feet, slag roof.

Factory, 4021 Germantown avenue, \$6,000. Ed. Noon (O), on premises. McLaughlin & MacNaurara (C), 3973 Elser street. Brick, 3 stories, 39x32 feet, slag roof, one elevator.

Storage, 1347 Germantown avenue, \$950. T. T. Devlin (O), 1351 Germantown avenue. John Dillin (C), 1603 North Second street. New roof.

Church, 2911-13 North Eighth street, \$1,400. Mantfore Cong. Church (O), on premises. Chas. Schnitzer (C), 2227 South Front street. Brick, 10x54 feet, 1 story.

Dwelling, 2003 North Thirty-third street, \$850. M. Scherlox (O), 536 Tasker street. M. Cother Bros. (C), 603 Morris street. Interior alterations.

Dwelling, 240 Marheim street, \$450. D. J. Campbell (O), on premises. J. Spear S. & H. Co. (C), 1923 Market street. New heater in cellar.

Saloon and Storage, 10 North Fifth street, \$400. Chas. Sattler (O), on premises. Wm. sonKoelle & Co. (C), Twenty-sixth and Oxford streets. New floors, 4 tile partitions.

Store and Dwelling, 2813 West Girard avenue, \$3,000. Alex. H. Scott (O), 1806 South Rittenhouse square. Frank I. Wintz (C), 1618 North Twenty-seventh street. Brick, 1 story, 15x26 feet, interior changes.

Dwelling, 1013 North Sixty-third street, \$1,000. A. J. Kensler (O), on premises. Evans Const. Co. (C), 9 South Eighteenth street. Interior alterations.

Service Station, Wood and Broad streets, \$2,500. Packard Motor Co. (O), on premises. Cramp & Co. (C), Eleventh and Market sts. Dining room on the roof, 25x86 feet, ninth-story addition.

Dwelling, 245 South Eighth street, \$800. Paul J. Wofft (O), on premises. C. Hoffman (C), 210 Dickinson street. Fire escape.

Store and Apartment, 5146 Market street, \$1,600. A. Brooks (O), on premises. Basch & Co. (C), 1426 South Front street. Flush bulk.

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TREASURY DEPARTMENT, Supervising Architects' Office, Washington, D. C., May 23, 1917.—Sealed proposals will be opened in this office at 3 p. m., June 27, 1917, for the construction complete of the United States post office at Vineland, N. J. Drawings and specifications may be obtained from the custodian of site at Vineland, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

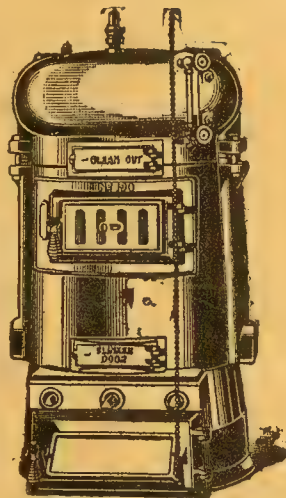
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Artists' and Architects' Supplies. Chas. H. Robbins.....125 S. 11th st., Phila. Warren-Knight Co.....136 N. 12th st., Phila. F. Weber & Co.....1125 Chestnut st., Phila.	Floor Plates. Alan Wood Iron and Steel Co., Widener Bldg., Phila.	Roofing. The Barrett Co.....New York City and Phila.
Blue Prints. Chas. H. Robbins.....125 S. 11th st., Phila. F. Weber & Co.....1125 Chestnut st., Phila.	Furnaces. Abram Cox Stove Co., American and Dauphin sts., Phila.	Roofing Slate. C. F. Shellenberger...Builders' Exchange, Phila.
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Electrical Specialties. Large-Dail Mfg. Co.....606 Cherry st., Phila.	Mill Supplies. The Fairbanks Co.....7th and Arch sts., Phila.	Test Borings. Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.
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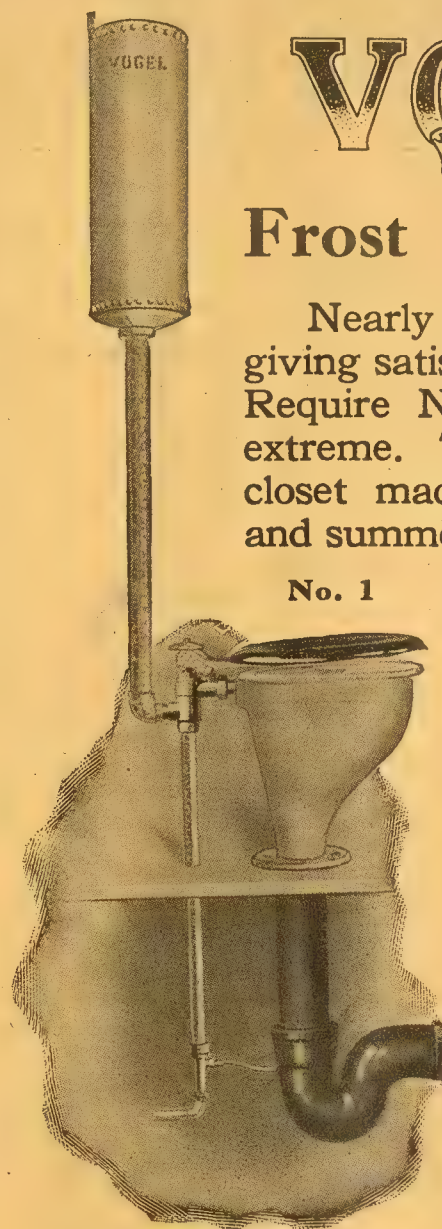
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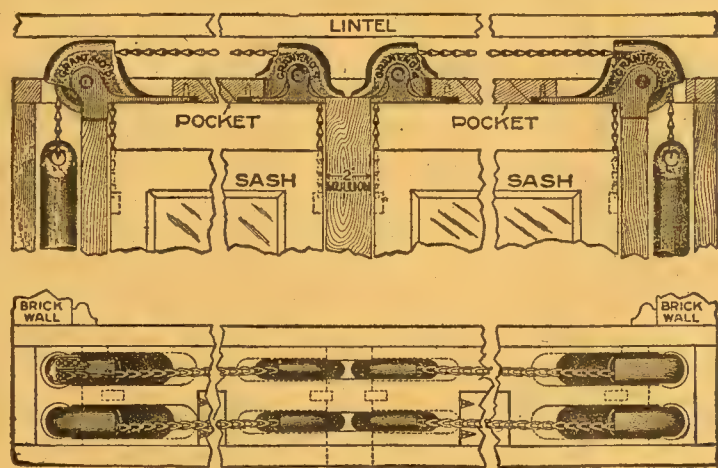
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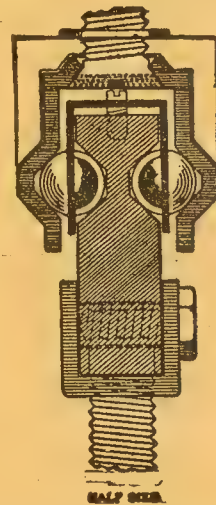
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Vol. XXXII., No. 24
June 13, 1917

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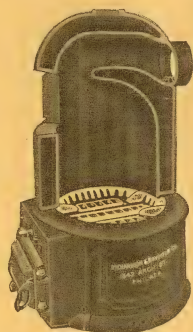
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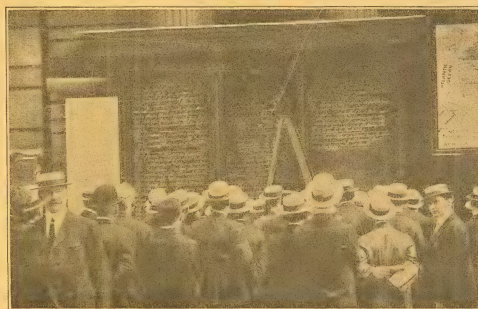


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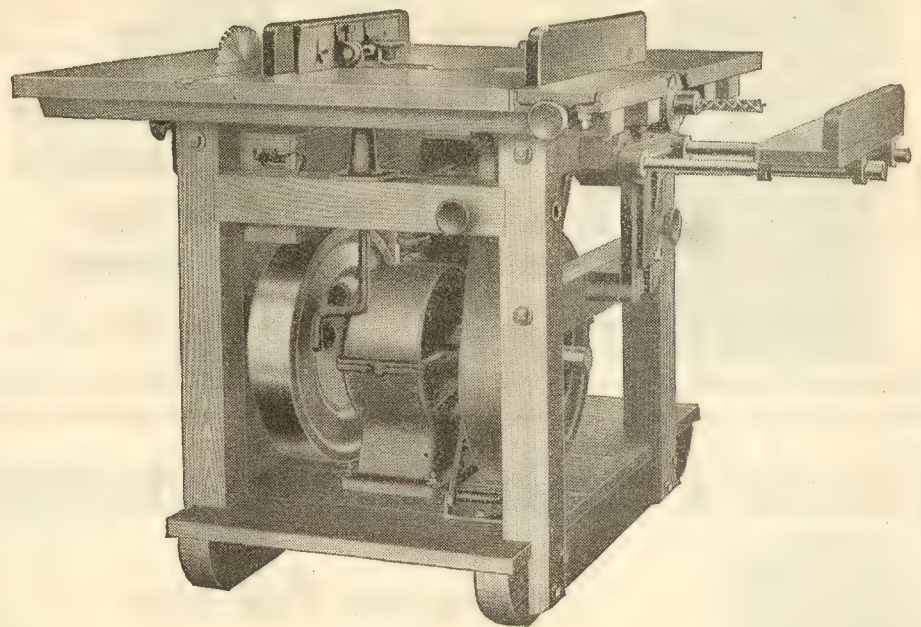
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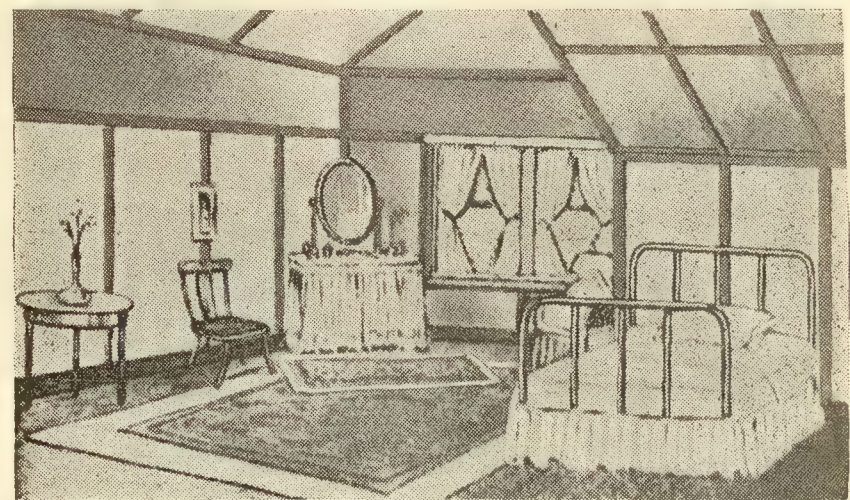
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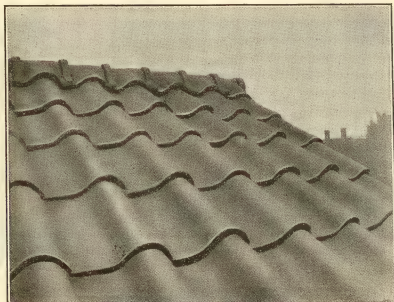
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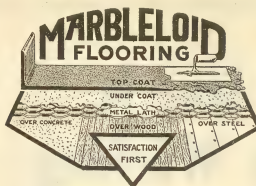
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BUILDERS' GUIDE

VOLUME XXXII
Number 24

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

PHILADELPHIA
June 13, 1917

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As The Editor Sees It



THE *Journal of the American Institute of Architects* has some interesting views to express on the subject of the bill pending in the Pennsylvania Legislature requiring registration.

"It is becoming evident," remarks the *Journal*, "that there is at present a great diversity in the registration and license laws of the different States, and that there many defects in them which give serious concern to those interested in the ultimate establishment of a law which will not only make a wise provision for safeguarding the public interest, but which will also avoid conflicts between the various States. While there may yet be room for a difference of opinion on many points, it would appear that much could be accomplished by co-operating with the Special Committee of the Institute which was appointed for the purpose of just such co-operation. Mr. William D. Bannister, of the Brooklyn Chapter, is the Chairman of this Committee, and we believe that if proposed laws could be submitted for suggestions and constructive criticism, the subject of registration laws would gain much thereby."

"We feel that it is never inopportune to restate the basis upon which such laws should be enacted—always for the protection of the public and never for the aggrandizement of the profession, except as the educational and technical requirements imposed by those bodies which have the licensing power will help

to raise the standard of architectural equipment. *No legislation should be thought of which, even by remote indication, deprives any intending builder of the right to have his plans made where-soever he wills and by whom he chooses.* Registration laws should be for the purpose of making a distinction between the architect who possesses the knowledge, experience, and skill necessary in pursuing his calling and the man who takes the title to himself as a business expedient. Under any kind of a law it will take many years to change the present conditions, since it is scarcely possible to shange a situation which has persevered for many years by legislative enactment. Registration laws of the right kind must aim at an ultimate condition rather than at the immediate and complete correction of those evils from which the public suffers wherever incompetence and inexperience usurp a title which should imply competence and experience in a very high degree."

* * *

THAT these qualities are not always possessed by those who call themselves architects is shown by the fact that 25 per cent. of those who applied for registration in New York State were not granted a certificate. These men may still continue their practice and call themselves architects, but the enactment of a registration law does not cause the State to step in and give them a badge of competency. This is a point

which should be very carefully studied in all proposed laws, it is manifestly contrary to the public welfare for a State to certify to competency where it does not exist, even though it is without the power to restrain the activities of those who have pretended to possess the ability required to practice architecture, and have thus built up a business which is beyond the reach of the law, under our constitutional safeguards."

* * *

IDAHO is the twelfth State (if our list is correct) to enact a Registration law. The law is entitled "An act to provide for the licensing of architects, and regulate the practice of architecture in the State of Idaho."

Despite its title and its length (3,000 words against New York's 1,300) one may hazard the guess that Idaho has one of the best laws yet passed. The following notes are intended to mention some of the salient details and also some of the serious faults of this law.

Board of Examiners: Five, one an architect or engineer member of the faculty of the State university and four architects of five years' experience. Five years might better be ten if art in the State were older. Term of office four years. Five might be better, thus bringing in not more than one new member each year.

The surplus fees paid over annually to the State Treasurer, instead of going into the general fund, "shall form the nu-

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cleus of a fund to provide for an advanced course of architectural study to be established in the University of the State of Idaho."

A regrettable feature of this law is that every man in the State who called himself an architect before the law went into effect can demand a license. In effect the Board of Examiners has no discretion, but must issue to each a badge of competency, however poorly qualified he may be.

* * *

THIS provision not only prolongs the time for raising the standard of education, but at one stroke holds before the public the most unworthy architects as a standard sufficient for registered or licensed architects. That means a low standard which cannot be eradicated from the public mind in generations. The respect of the public for the profession will be deserved if a reasonably high standard of character and competency is adopted at once. Incompetent men may continue to exercise any right they had when the law went into effect, but a registration law should not place a seal of approval upon them.

One superfluous requirement of this law, which is a highly expensive and annoying nuisance, is that each architect must have a seal which is to be impressed on all drawings and specifications. Why not as well require physicians to seal every prescription?

Section XIX of this law undertakes the task of defining the word "architect" as one who designs or supervises buildings for others and to be constructed by persons other than himself, and proceeds by a peculiar definition of "a building" to eliminate from architecture pergolas or park shelters, smokestacks or railway track sheds a mile long, simply because they do not possess all of the three assumed essentials of a building, namely, "foundation walls and roof."

* * *

CIVIL engineers are not limited to practice under their own proper title, but are also required to call themselves architects if they design buildings. This will surely lead to jealousy and friction.

It seems hardly fair or wise to prohibit engineers from doing buildings under their own title. If they wish to call themselves architects then they should be required to qualify on the artistic side of architecture. Instead of trying to force engineers who may have no artistic inclinations to qualify esthetically, it is better surely to encourage engineers and architects to co-operate. An architect and an engineer in partnership make an admirable team, for instance, to do factory work.

WE are here quoting the views of Mr. D. Everett Waid who contributes also an analysis of the Pennsylvania bill now pending:

"A bill has been introduced in the Pennsylvania Legislature," writes Mr. Waid, "which it is to be hoped will be amended before passage, but which, as introduced on April 2, 1917, on account of its good and bad features is worth the study of other States where similar legislation is in prospect. In the first place its title is in excellent legal form, exact and comprehensive of the content of the act.

"The bill provides seven in the Board of Examiners—two professors of architecture, one professor of engineering and four architects of ten years' practice, and all members of the American Institute of Architects.

"Architect" is better defined than in the Idaho law since the meaning of 'building' is not limited.

"The secretary and the treasurer of the Board of Examiners are given a combined total of \$750 per year, and the other members must serve without pay beyond reimbursement for actual expenses. This, if legal, is surely a mistake. Few honest men can afford to give such laborious service for nothing, and others would be tempted to use their office and its influence dishonorably. Ten dollars a day for actual service is not open to serious criticism one way or the other.

"The age twenty-five, general education two years high school, and experience of seven years—these requirements are an improvement over the New York law."

* * *

THE reciprocal relation with other States as expressed in this bill is a conditional privilege which is likely to hamper the Board of Examiners in cases on which it would like to act. Compare with the New York and Idaho laws.

"It may be predicted that \$10 per year for renewing the license will be regarded as an objectionable tax.

"The Board of Examiners is to own seals for all architects in the State and will have the pleasure of issuing and recalling and reissuing these seals. The architects pay the cost and enjoy as best they can applying impressions to all their drawings and specifications. Surely there is trouble enough without paying for such useless gratuities.

"Pennsylvania in this bill proposes the same serious mistake which Idaho has made in giving every so-called architect a license tag. If the law is intended to encourage education and is to discriminate in future with higher standards, why not begin at once with at least some reasonable standard and grant certificates to architects now in practice who are

doing legitimate work and refuse registration to those who cannot show an honest record and at least one or two decent buildings? Professional practice laws should fix some measure of skill and ability. Licenses are issued to peddlers and taxicabs for a different fundamental reason."

* * *

AND in the meantime, notwithstanding the explicit disclaimer, of any intention to interfere with the drawing of plans by builders, made by the author of the bill in these columns, a number or two back, the Master Builders' Exchange, of this city, is still offering a vigorous opposition to the passage of the bill. The position of the *Journal* would seem to be as sound as it is sensible. The *Journal* contends that registration laws of the right kind must aim "at an ultimate condition rather than at the immediate and complete correction" of existing evils. The chief objections heard to the Pennsylvania law issue from the feeling that it is over-drastring in certain of its provisions. To be sure, these may be amended or eliminated before the bill reaches final passage. The idea behind the measure is a good one. There should be little difficulty in reaching such a compromise on the disputed sections as will make possible the bill's ultimate enactment. Some form of registration is an absolute necessity.

* * *

ATENTION is called to the fact that the New York State law regulating the practice of architecture has recently been amended.

One of the amendments extends the exemption period whereby certificates of registration may be issued to architects who were in practice previous to the enactment of the original registration act, namely, April 28, 1915. Any architects who were in practice in New York State previous to that date may now secure certificates, provided their applications are filed before January 1st, 1918, and provided such applications are approved by the Board of Examiners. Application blanks may be secured by addressing the Department of Education, Educational Building, Albany, New York.

One of the amendments just enacted is of interest to architects of other States and reads as follows: "Any architect who has lawfully practiced architecture for a period of more than ten years without the State shall be required to 3—Builders' Guide. Orr take only a practical examination, which shall be of the nature to be determined by the State Board of Examiners and Registration of Architects."

One of the amendments of the New York law which is of interest to those of other States contemplating similar legislation is as follows: "But this arti-

cle shall not be construed to prevent persons other than architects from filing applications for building permits or obtaining such permits."

* * *

THE railroads are seeking a general advance in freight rates and, in view of the advances that have taken place in all other lines, are probably entitled to a certain amount of consideration. The members of the Interstate Commerce Commission, now engaged in taking testimony in the matter, should, in arriving at a decision, make one fact very clear and plain to the petitioning carriers. And that is, that with the coveted advance in rates they shall be required to end the condition of freight congestion from which shippers in all lines have been suffering for the

past year or more. The plea of insufficient cars has become tiresome to the point of monotony. If the railroads have been unwilling to supply cars, in a sufficient quantity, at the old rates, no such reason will hold good with these rates advanced to what the railroads regard as a fair scale. Let it be made very clear and explicit to the railroads that one of the conditions to be looked for as a result of permitting the desired increase in rates will be an always adequate supply of cars with such other improvements as to existing difficulties as shall make deliveries satisfactory to shippers and public and the service adequate to every reasonable demand upon it. And let it be made plain that this shall apply to coal and foodstuffs as well as to every form and grade of building material.

ager of the company, has been elected vice-president.

* * *

The existing high prices of structural materials of all classes continue to be the principal factor that is now responsible for withholding a number of important operations from active construction. Although it is almost generally realized now that there can be no important recession in commodity prices for years to come, many prospective builders are holding out in the hopes that some circumstance will occur whereby material prices will be reduced to a level that will permit them to go ahead according to their original plans. In consideration of the high prices, owners who find it expedient to start their operations in spite of the prevailing prices, are cutting down their plans to the minimum and substituting, where possible, materials less costly than those originally specified.

* * *

The Lumber Trade Commissioners who will investigate foreign lumber markets for the U. S. Government, will leave the United States on August 1 to spend two years in Europe. Commissioner John R. Walker, of Washington, D. C., will study conditions in England, France and Holland. Commissioner R. E. Simmons, of Oshkosh, Wis., will investigate the lumber trade and timber resources of Russia and Siberia. Other members of the Commission will visit Norway, Sweden, Spain, and the Mediterranean countries. The Trade Commissioners are now on a tour of the United States inspecting the saw mills and the available export grades. The entire Commission was in Chicago recently in order to confer with the lumber producers of Wisconsin and Michigan.

* * *

A zoning plan similar to the one now in force in New York City is being advocated for Jersey City. According to one of the oldest real estate operators in Hudson County, the best evidence that the system should be adopted in every city is the manner in which it has worked out in New York.

* * *

At the annual meeting of Sargent & Company, New Haven, Conn., Wilfred Lewis and Ziegler Sargent were elected as directors of the company and the following members of the Board of Directors were re-elected: Henry B. Sargent, Edward R. Sargent, Joseph D. Sargent, G. Lewis Sargent, John Sargent, Bruce Fenn and George F. Wiepert. The new officers of the company are as follows: President, Henry B. Sargent; vice-president, C. Lewis Sargent; secretary, Murry Sargent; treasurer, Ziegler Sargent.

* * *

Those interested in waterfront development are anticipating a rise in land values as a result of the newly revived shipbuilding industry. The long looked for harbor improvement, coupled with renewed construction activity along this line, may be reflected in an advance in waterfront values.

EDITORIAL NOTES

The outstanding feature of the building situation continues to be the immense amount of construction work undertaken by the Federal Government in the erection of buildings at the numerous training and mobilization camps. Millions of dollars worth of work have already been contracted for and there is estimated to be an equal amount, if not more, in prospect that will be placed under contract during the coming months. The effect of this building movement on the part of the Federal authorities is beginning to be felt through the trade in all parts of the country not only by the fact that there has been a call for great quantities of building materials and supplies, but also by the effect on the labor situation. This military construction is taking the services of a great number of skilled mechanics out of the general building business, and while the result in some directions is good, there is no doubt but that the concerns specializing in private construction will feel the shortage for a long time.

* * *

W. E. Stephens Company, architect, has moved its office from 152 Barrett street to 208 South Centre street, Schenectady, N. Y.

* * *

According to figures recently tabulated the construction contracts throughout the Eastern States for the Federal Government in connection with the preparedness program will call for the immediate expenditure of approximately \$120,000,000. A large percentage of this money will be spent in and around the Metropolitan district. Two structures recently started in the Brooklyn Navy Yard will cost about \$2,000,000 and the improvements that are contemplated, which include the deepening of the East River channel, will involve the expenditure of nearly \$20,000,000.

Edward Warren Young, formerly of New York, after practicing for ten years in Savannah, Ga., has reopened offices at 30 Church street, New York City.

* * *

Ernest P. Goodrich, consulting engineer with A. Pearson Hoover, associate, are now located at 261 Broadway, New York. They specialize in valuations, organizations and developments of industrial plants, city planning, harbor, port, railroad and water terminal developments, improvement of transportation facilities, municipal engineering and administration, valuation and rate making, franchises and reinforced concrete and foundations.

* * *

Hunley Abbott, vice-president and chief engineer of the MacArthur Concrete Pile and Foundation Company, has resigned from that company to accept a position with the Bartlett Hayward Company, of Baltimore.

* * *

The general situation in the building trades seems to be fairly satisfactory. While it is quite true that there was not a large amount of new construction placed under contract there has been a slight indication of a renewal of life in the building and allied trades, which is hoped will grow as the summer advances. There are signs pointing to an end of the depression that the building industry has been laboring under for a long time, and while it is not expected that the activity will equal the volume that was confidently expected before the advent of the United States into the war, it will at least be sufficient to keep things moving.

* * *

D. H. Thomson has been elected president and treasurer of the Terry Steam Turbine Company, Hartford, Conn., as successor to the late James Terry. N. L. Snow, sales man-

National Metal Trades Association at its recent meeting at the Hotel Astor elected the following officers for the coming year: President, W. H. Van Dervoort, of the Root & Van Dervoort Engineering Company, East Moline, Ill.; first vice-president, Murray Shipley, of Lodge & Shipley Machine Tool Company, Cincinnati, Ohio; second vice-president, H. W. Hoyt, of the Great Lakes Engineering Company, Detroit, Mich.; treasurer, F. C. Caldwell, of H. W. Caldwell & Son Company, Chicago, Ill.; Homer D. Sayre, People's Gas Building, Chicago, secretary.

* * *

Harry B. Coleman has been made president and manager of the Schoedinger-Marr Company, Columbus, Ohio, to succeed Mr. Jacobs, who has retired on account of ill health. Mr. Coleman was formerly connected with the Russell & Erwin Manufacturing Company, New Britain, Conn., and the T. B. Rayl Hardware Company, Detroit, Mich.

* * *

American Society for Testing Materials will hold its twentieth annual meeting at Atlantic City, at the Hotel Traymore, June 26 to 30, inclusive.

* * *

The Georgia Marble Company in a recent reorganization have taken over the Kennesaw Marble Company, of Marietta, Ga.; the Blue Ridge Marble Company, of Nelson, Ga.; and the George B. Sickels Marble Company, of Tate, Ga. The general offices of the concern will be at Tate, Ga. Colonel Sam Tate continues as president of the company, Mr. Walter E. Tate as vice-president, and Mr. R. L. McClain as treasurer. Mr. G. M. Atherton, formerly treasurer of the Blue Ridge Marble Company, will become assistant treasurer; Mr. A. V. Cortelyou, who was formerly president of the Kennesaw Marble Company, is a vice-president of the new company. Mr. Alex. Anderson, formerly vice-president and general manager of the Blue Ridge Marble Company, is another vice-president. Mr. Harry H. Miles, formerly vice-president of the Blue Ridge Marble Company, is another vice-president. Mr. H. L. Litchfield, formerly secretary of the Georgia Marble Company, is another vice-president. Mr. W. A. Richardson, formerly treasurer of the George B. Sickels Marble Company, is secretary. Mr. Harry H. Miles has charge of the New York office and Mr. Joseph B. Rheinhalter has charge of the Cleveland office.

TORCH BLASTING.

Large nigger-head boulders up to 8x10 feet were recently encountered in the subway excavation near Borough Hall, in Brooklyn, where it was impracticable to break them up by dynamite blasting, and satisfactory results were obtained by the use of oil burners. The great heat developed by one of these burners was concentrated on one point of the surface

of the boulder to be broken, for ten or fifteen minutes, until the rock was expanded so much that it split at the seams, after which the operation was repeated on the smaller pieces until they were all reduced to convenient size for handling. The burner consumed approximately one gallon of kerosene oil per hour. Two men and the torch broke up the boulder mentioned in about one hour at a total cost of approximately sixty cents.

RESISTANCE MATERIAL.

The electrical trade is interested in a plastic molding compound that is made from the anhydrous resin that results when dry phenol reacts with dry hexamethylenetetramine. The claim is made for this material that it has a permanent color and surface brilliance that cannot be impaired by age. The compound contains no ingredients which adversely effect brass inserts or other metal parts. This compound is said to have high tensile strength, high electrical resistance, and is not effected by solvents, oils, cleaners, heat or moisture. The product is marketed in rods, tubes, sheets, granular form, plastic form and blocks.

GLUE MOLDS FOR CONCRETE.

Multiples of small concrete ornamental members such as handrails, balusters and units of a similar character have been advantageously cast in molds made of ordinary glue. The wooden pattern is nailed to a board and enclosed with shallow sides, making an open box higher than the pattern, which is then filled with melted glue, covering the pattern to a depth of about one inch. After the glue has completely set, the form is turned bottom side up and the bottom and pattern removed, leaving a mold which is painted with white lead, followed with shellac, to prevent the absorption of moisture. This mold may with care be used for a large number of castings and can be cut up, melted and used over again with only a slight loss.

ARCHITECT'S RIGHT TO COMPENSATION.

When a statute or ordinance requires an architect to obtain a license before pursuing his occupation, an unlicensed person is not entitled to recover compensation for services in preparing plans and specifications, although his employer may have known that no license had been obtained. This point was declared by the Michigan Supreme Court recently in the case of Wedgewood vs. Jorgens.

Plaintiff prepared plans and specifications for a building which defendant contemplated but later abandoned, and plaintiff sued to recover the agreed compensation. The defense interposed was based on plaintiff's non-compliance with a local ordinance requiring architects to obtain annual licenses, pay a \$5 fee, and furnish a \$1,000 bond. The ordinance defines an architect as being any one who plans or supervises the erection or alteration of buildings for others, the construction work

being done by third parties. Plaintiff, a builder and contractor, did not do the work in question himself, having it done by an unlicensed architect, with the assent of the owner.

In determining that plaintiff was not entitled to recover, the Supreme Court holds that the employing owner's knowledge that no license had been obtained did not avoid invalidity of the contract of employment; and that the fact that the city authorities had not enforced the ordinance did not deprive the regulation of its binding effect.

An architect employed to superintend the construction of a building for lump sum compensation is entitled to extra pay for prolongation of the work by changes in the plans made at the owner's instance, holds the Texas Court of Civil Appeals in the case of Shear vs. Bruyere. The court cites an earlier decision in the same state wherein it was decided that notwithstanding a contract had been made to superintend the construction of a building for a lump sum, still, if the owner made changes during the progress of the work, requiring longer time to complete the building than originally contemplated, and the work was done with the owner's knowledge, the architect could recover extra compensation for such additional services.—Building Age.

POST-BELLUM POSSIBILITIES.

Public aeroplane landings and private landings and hangers may furnish problems that will tax the skill and ingenuity of the architects and consulting engineers of the next decade, according to men who have watched the rapid development of the science of aeronautics.

Architects may spend many sleepless nights trying to devise a method of making a hangar harmonize with modern residence or landscape architecture. A three-machine hangar with living rooms for the aviator on the second floor will not add to the attractiveness of a Dutch Colonial residence and the spectacle of a hangar in the immediate vicinity of an Italian garden, would jar the aesthetic sensibilities of an Esquimo. Perhaps some architectural genius of the future will introduce the world to an aero era of architecture.

DAMP-PROOFING WALLS.

For insulating stone buildings so that they will not absorb dampness from the surrounding ground, a new process has been introduced in Europe which, it is claimed, has proved successful. The method consists in sawing a slot in the foundation a few inches above the ground line and inserting in this lead plates coated with asphalt. To accomplish this a machine has been constructed which cuts a kerf about an inch in depth in the stone. After the plates are set in place temporary wooden forms are laid and liquid cement employed to close the crevices. This plan, it is said, prevents moisture from creeping up a wall, since it is unable to pass the insulation blocks.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Reservoir, Nicetown, Philadelphia. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Reinforced concrete, 30x75 feet, metal frame. Owners have received bids.

Store and Dwelling (alt.), 405 North Sixty-fourth street, Philadelphia. Architect, Henry A. McGrath, 549 North Sixty-fourth street, Philadelphia. Owner, F. Iaunczelli, care of Lambert & McDermott, 403 North Sixty-third street. Brick, 3 stories (heating and electric work reserved), slag roof, cement and pine floors, hollow metal skylights, fire doors, ornamental iron work. Architect has received bids.

Store and Office Building, 1430 Walnut st., Philadelphia. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, name withheld. Consists of new stone front, electric lighting, tile work, rolled steel sash, metal bulks. Plans completed. Architect will sub-let.

Store and Apartments, Thirty-sixth and Powelton avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone, 3 stories, 21x50 feet (2 apartments), slag roof, hot water heating, combination lighting, hardwood floors, tile work. Architect taking bids, due June 18th. Metzger & Fisher, Otis Building; Smith-Hardican Co., 1606 Cherry street; H. E. Grau Co., 1707 Sansom street; Barclay White & Co., 1513 Sansom street, and Standard Const. Co., 1713 Sansom street, are figuring.

Garage, Thirty-sixth and Powelton avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 story, 50x152 feet, slag roof, cement floor, electric lighting, steam heating (gasoline storage system reserved). Architect taking bids, due June 18th. Metzger & Fisher, Otis Building; Smith-Hardican Co., 1606 Cherry street; H. E. Grau Co., 1707 Sansom street; Barclay White & Co., 1713 Sansom street, and Standard Const. Co., 1713 Sansom street, are figuring.

Extension for Air Pump, Schuylkill avenue and Christian street. Architect, private plans. Owners, Phila. Electric Co., Tenth and Chestnut streets, Philadelphia. Concrete, 1 story, 27x51 feet. Owners taking bids, due as soon as possible. Turner Concrete Steel Co., 1713 Sansom street, are figuring.

Paving, various streets, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Highways, Department of Public Works, Geo. E. Datesman, Director, City Hall, Philadelphia. Paving with asphalt and granite block, surfacing with macadam and new curbing. Owners ready for bids, due June 21st at noon. Inquire at room 232, City Hall.

Foundry Building, Navy Yard, Philadelphia. Owners, U. S. Gov., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department,

Washington, D. C. Architect, private plans. Hollow tile and steel, 1 story, 456x180 feet and 648x180 feet, asbestos roof (heating, plumbing and lighting separate bids), concrete floors, rolled steel sash, fire doors, metal lath, metal window guards, ornamental iron work. Owners have received bids.

Hotel and Restaurant (alt. and add.), 215 S. Broad street, \$50,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Daniel J. Kopp, 5335 Baltimore avenue, Philadelphia. Stone, brick, steel and terra cotta, 4 stories, slag roof, cement, composition and wood floors, metal lath (plumbing, heating, electric work and elevators reserved), tile, marble and terrazzo work, ornamental iron work. Plans completed. Architect will take bids.

Residence (alt. and add.), West Bell Mills road, Chestnut Hill, Pa. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Daniel H. Farr, 1626 Walnut street, Philadelphia. Stone, hollow tile, frame and plaster, 2 stories (finished hardware reserved), vapor vacuum heating, electric lighting, tile and marble work, tin roof, cement and pine floors, metal lath. Architects have received bids.

Residence (alt.), 1415 North Broad street, Philadelphia. Architect, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Mrs. B. Gimbel, 914 North Broad street, Philadelphia. Consists of interior alterations (heating, lighting and hardwood floors reserved). Architects have received bids.

Office Building, Central Philadelphia. Architect, Mantle Fielding, 520 Walnut st., Philadelphia. Owner, name withheld. Reinforced concrete, brick, stone, 5 stories, 32x80 feet. Architect taking approximate estimates. Will take general bids later.

Store and Office Building (alt.), 1214 Walnut street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Wm. L. Ludascher, Westmoreland st. and Delaware avenue. Brick and stucco, 3½ stories, steam or hot water heating, electric lighting, tile and marble work, pine floors, metal lath, ornamental iron work. Plans in progress. Ready for bids in a few days.

Church (add.), A street and Wyoming avenue, Philadelphia, \$30,000. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Boulevard United Presbyterian Church, Rev. L. R. Free, 212 E. Wyoming avenue, Philadelphia. Stone, 1 story auditorium addition. Plans in progress.

Warehouse southwest corner Fifth and Willow streets, Philadelphia. Architects selected, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, A. Colburn Co., 110 North Second street, Philadelphia. Reinforced concrete and brick, 8 stories, 20,000 square feet. Plans in progress. Too early for details.

Lavatory and Office, Richmond street and Dealware avenue, Bridesburg, Philadelphia.

Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford. Owners, Chas. Lennig & Co., Inc., 112 South Front street, Philadelphia. Brick, steel, 1 and 2 stories, 40x20 feet and 20x50 feet, slag and tin roof, pine and maple floors (heating reserved), electric lighting, tile and marble work, roof ventilators. Architect taking bids, due June 16th. Wark-Yardley Co., 1737 Filbert street; Fred A. Havens Co., 845 North Nineteenth street, and Rush Bros., 1104 Arrot street, are figuring.

Residence (alt. and add.), Chestnut Hill, Philadelphia. Architect, Walter H. Thomas, 130 South Fifteenth street, Philadelphia. Owner, Wm. A. M. Fuller, Whitmarsh, Pa. Stone, 1 story addition, 8x12 feet, shingle roof, pine floors, hot air heating, electric lighting. Architect taking bids, due as soon as possible. Metzger & Fisher, Otis Building; Wm. H. Eddleman & Sons, 453 Green Lane, Roxborough, and Brown Const. Co., 4600 Main street, Manayunk, Philadelphia, are figuring.

Office, Apartment and Garage, Franklin st., Oak Lane, Philadelphia, \$10,000. Architect, private plans. Owner, P. A. Waltz, 6610 N. Seventh street, Philadelphia. Brick, 2 and 1 story, 50x20 feet and 50x90 feet, slag roof, hot water heating, electric lighting, cement and pine floors, gasoline storage system. Owner is sub-letting.

Church, Twenty-eighth and Lehigh avenue, Philadelphia. Architects, Street & Stackhouse, 129 South Fifth street, Philadelphia. Owners, North West Memorial Church, care of Rev. W. Dallas Cope, 4425 North Eighteenth street, Philadelphia. Stone, 1 story, 74x90 feet, slate roof, pine floors, electric lighting. Architects have received bids.

Wall and Fence, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Govt., care of Col. Geo. Montgomery, Frankford Arsenal, Philadelphia. Brick, stone and steel, electric lighting, waterproofing, ornamental iron work. Low bidders, W. W. Anstine & Co., 1218 Filbert street, \$33,439; Ketcham & McQuade, 1029 Brown street, \$36,448.

Church (add.), Third and Brown streets, Philadelphia. Architect, W. G. Hammer, Glenside, Pa. Owners, St. Agnes's Slavoc R. C. Church, care of Archbishop E. F. Prendergast, Eighteenth and Race streets, Philadelphia. Stone and brick. Plans in progress. Too early for details.

Schools (3) (alts.), Philadelphia. Architect, J. Horace Cook, Nineteenth above Chestnut street. Owners, City of Philadelphia, Board of Education, Nineteenth above Chestnut street. Consists of interior alterations, new partitions, mill work, plastering, metal lath, painting, cement paving and iron railings (plumbing separate bids). Lowest bidders: South Philadelphia High School, Geo. Dobbins & Co., \$649; Curtin School, Thos. C. Trafford, \$1,315; Campbell School, Wm. Mundy, \$1,339.

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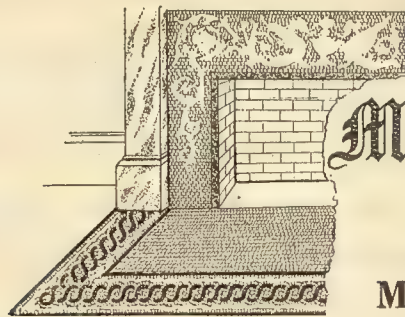


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Philadelphia. Architect, Jos. A. Poletter, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall, Philadelphia. Brick and stucco, 1 story, 24x10 feet and 13x8 feet, slate roof, cement floors, metal lath, hollow metal doors. Low bidders, Hogg Const. Co., 1634 Sansom street, \$3,280; Conneen Const. Co., 1737 Filbert st., \$3,300.

Caretakers Lodge, Fifty-third and Botanic avenue. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall. Brick and plaster, 2 stories, 30x25 feet, asbestos tile roof, pine floors, metal lath (heating, electric work and plumbing separate bids). Low bidder, Conneen Const. Co., 1737 Filbert street (only accepted bids), bid (A) \$8,500; bid (B), \$8,675.

Residence and Garage, Frankford, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, J. Augustus Edgar, 4641 Penn street, Frankford, Philadelphia. Brick and plaster, 2½ stories, 20x50 feet; garage, 1 story, 12x20 feet, slate roof, hot air or hot water heating, electric lighting, tile work, hardwood floors, metal lath. Architects taking bids, due June 15th. Geo. Rimer, 4842 Hawthorne street; Rush Bros., 1104 Arrott street, and H. A. L. Smink, 5320 North Twelfth street, are figuring.

Office Building, Fifty-eighth and Woodland avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, G. Gibson McIlvaine & Co., on premises. Stone, brick and reinforced concrete, 2 stories and basement, 47x32 feet, slag roof (lighting reserved), hot water heating, maple floors, marble and terrazzo work, hollow metal sash, kalamein doors, metal lath, safety treads, ornamental iron work, wire work. Architects have received revised bids.

Service Building, E. Cambria street, near Belgrade street. Architect, Edward F. Judge, 2972 Richmond street, Philadelphia. Owners, Furness, Withy & Co., Ltd., Bourse Building, Philadelphia. Brick (slow burning), 2 stories, 53x96 feet (heating and electric work reserved), slag roof, cement and maple floors. Owners taking bids, due in one week. Henry P. Schneider, 3713 Old York road, is figuring.

Steel Tank Tower and Wooden Tank, 826 S. Swanson street. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, J. Milton Hagy Waste Works, Inc., on premises. Brick and steel, 15,000-gallon cedar tank, iron ladder. Architects have received bids.

Stores and Apartment House (alt. and add.), Queen Lane, Philadelphia, \$12,000. Architect, Mahlon H. Dickinson, Bellevue Court Building. Owner, name withheld. Brick, 4 stories, 1 story addition, slate roof, steam heating, electric lighting, cement and pine floors, metal lath, metal ceilings. Plans about completed. Architect ready for sub-bids.

Parsonage (alt. and add.), Frankford, Philadelphia. Architects, Stearns, Woodnutt & Schmoll, Stephen Girard Building, Philadelphia. Owners, Central M. E. Church of Frankford, Rev. John Watchorn, Orthodox and Franklin streets, Frankford, Philadelphia. Brick, 2 stories, 18x18 feet, tin and slag roof (parquetry floors and heating reserved), electric lighting, tile and marble work, pine floors. Architects taking bids, due June 14th. Specht & Sperry, Heed Building; Geo. Byers, 1747 Foulkrod street; Rush Bros., 1104 Arrott street; Geo. Rimer, 4842 Hawthorne street, and Wm. Easterbrook, 146 North Fourth street, are figuring.

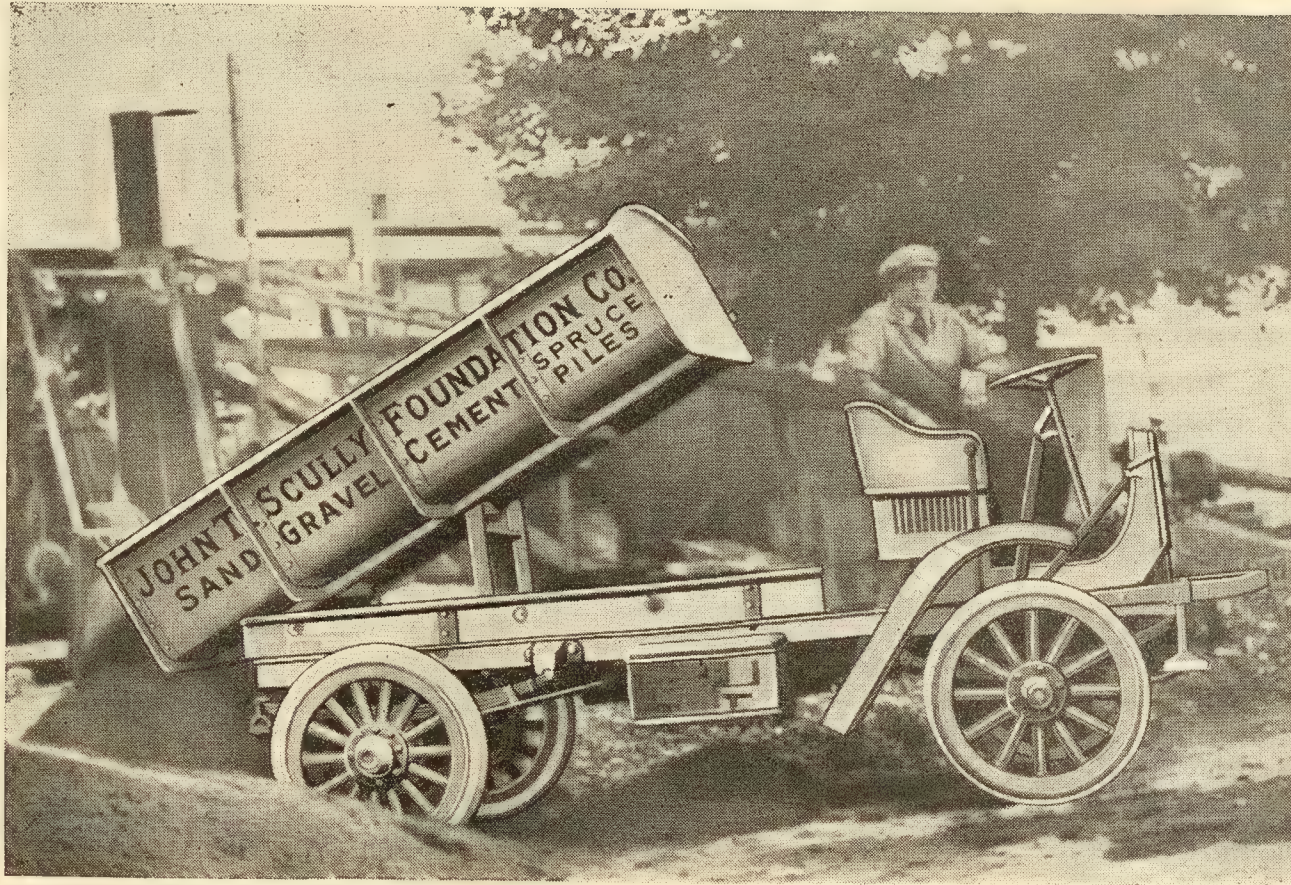
Sunday School, Island road and Lyons avenue, \$10,000. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, Mt. Cavalry Presbyterian Chapel, 5247 Locust street. Stone, 1 story and basement, 65x60 feet, slag roof, pine floors (heating and lighting reserved). Owners, care of Rev. W. F. Fulton, Witherspoon Building, taking bids, due June 18th. Thos. C. Trafford, 1613 Sansom st.; E. E. Hollenback, Inc., 1804 Brandywine street, and E. J. Kreitzburg, 1345 Arch street, are figuring.

Stable, 411-13 Moore street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, A. Goldman, on premises. Brick (slow burning), 2 stories, slag roof, plank floors, electric lighting. Architect taking revised bids. J. Bender, 1817 S. FFourth street, is figuring.

Bank Building (alt.), Broad and Columbia avenue, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Columbia Avenue Trust Co., Broad and Columbia avenue. Consists of interior alterations, 1 story, steam heating, electric lighting, tile and marble work, cork, pine and composition floors, fire doors, bank fixtures, metal lath, waterproofing, ornamental iron work. Architects taking bids, due June 13th. F. L. Hoover & Sons, 1023 Cherry st.; A. R. Raff Const. Co., 1635 Thompson street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

Apartment House (alts.), 2225 N. Broad st., Philadelphia. Architects, Andrew J. Sauer &

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Co., 908 Chestnut street, Philadelphia. Owner, name withheld. Consists of extensive interior and exterior alterations. Plans in progress. Too early for details.

Parish House, Germantown avenue and Queen Lane, Germantown, \$10,000. Architect, Armando Alcantaro, 2962 North Bailey Building, Philadelphia. Owners, Trinity Lutheran Church, on premises. Stone, reinforced concrete and brick, 2 stories, 46x69 feet, slate roof, hot water heating, electric lighting, metal lath, hardwood floors, tile work. Architect will sub-let all contracts.

Garage, 2019 North Seventeenth street, Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, William A. Biren, on premises. Brick, 1 story, 21x25 feet, slag roof, cement floors. Architects taking bids. Julius Solomon, 1828 North Franklin street, is figuring (only bidder).

Store, Frankford avenue and Rhawn street, Philadelphia. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owners, Estate of Samuel Cooper, care of architect. Brick, 3 stories, 16x64 feet, slate and slag roof, composition and pine floors. Architect taking bids, due June 15th. H. E. Grau Co., 1707 Sansom street, is figuring (only bidder).

Office Building, Girard Point, Philadelphia, \$20,000. Architect, William H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, 2 stories, 20x80 feet, slate roof, steam heating, electric lighting. Plans about completed. Owners will take bids in ten days.

Apartments (alts.), 1517-1521 Christian street, Philadelphia. Architect, private plans. Owner, E. C. Brown, 427 South Broad street, Philadelphia. Consists of general interior alterations, steam heating, electric lighting, hollow metal skylights, fire escapes, plastering, painting. William J. Robinson, 1508 Lombard street, is taking sub-bids.

Residence (alt. and add.), Wynnefield, Philadelphia. Architect, private plans. Owner, B. Urban, 5204 Drexel Road, Wynnefield, Philadelphia. Stone, 2 stories and basement addition, 12x25 feet, shingle roof, pine floors (heating reserved), electric lighting, tile, marble work, fire doors, pine floors, metal lath. Owner taking bids, due June 15th. George Kessler Cont. Co., Drexel Building; John V. Speth & Co., 1714 Sansom street, and John T. Sanders, 5111 Walton avenue, Philadelphia, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

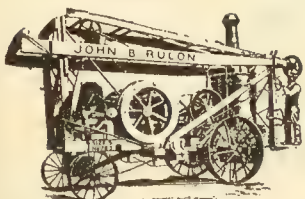
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Store Building (alts. int.), southeast corner Eleventh and Chestnut streets, \$2,500. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, Walter G. Becker, on premises. Consists of interior alterations, cutting elevator hatchway (elevators, plumbing and electric work reserved), pine floors. Contract awarded to John A. Codori, 1235 Arch street, Philadelphia.

Bridge, over Asylum road, west of Trenton Junction on New York Branch. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, The Phila. & Reading Rwy. Co., Reading Terminal, Philadelphia. Steel and concrete, waterproofing and excavating. Excavation and concrete work awarded to John A. Kelly & Co., Inc., Pennsylvania Building, and waterproofing awarded to Hydrex Felt & Eng. Co., 120 Liberty street, New York City.

Dormitory Building (alt. and add.), 5505 Germantown avenue, \$30,000. Architect, private plans. Owners, Women's Christian Asso., of Germantown, 5503 Germantown avenue. Brick, 3 stories, addition 64x36 feet, tin roof, hot water heating, electric lighting, composition and pine floors, fire tower, fire doors. Contract awarded to Wm. J. Gruhler Co., 219 E. High street, Germantown.

Escalators and Enclosures, Eighth and Mar

ket streets, \$44,000. Architect, private plans. Owners, Strawbridge & Clothier, on premises. Wood and steel, 4 stories, steel floor plates, wire glass. Contract awarded to Stacy Reeves & Sons, 2011 Market street.

Garage and Service Building, Fifty-sixth and Chestnut streets, \$23,000. Architect, private plans. Owners, Wager & Karpeles, 28 N. Fifty-fifth street, Philadelphia. Brick (slow burning), 2 and 1 stories, 93x24 feet and 93x86 feet, slag roof, cement floors (plumbing, heating, electric work and gasoline storage system reserved), metal lath, roof ventilators. Contract awarded to J. D. Fisher, 5424 Thompson street, Philadelphia.

Store and Dwelling (alt. and add.), 519 South street, Philadelphia, \$5,000. Architect, S. Berger, 1950 North Sixth street, Philadelphia. Owners, Wiener & Poliner, 416 Market street, Philadelphia. Brick, 3 stories, addition 20x40 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to Harry Miller, 427 Catherine st.

Factory, Stokley & Roberts avenue, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, American Insulation Co., 67 North Second st., Philadelphia. Brick, stone, concrete, terra cotta, 2 stories, 83x141 feet, slag roof, electric lighting, rolled steel sash, hollow metal sky-

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lights, fire doors, cement and asphalt floors, metal lath, elevators, roof ventilators, ornamental iron work. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street.

Factory Building (alts.), Ninth and Westmoreland streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, Surpass Leather Co., on premises. Concrete, steel and asphalt paving, 16x140 feet. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Office Building, 3611 Walnut street, Philadelphia, \$10,000. Architects, private plans. Owner, Sarah Bottoms, 3601 Walnut street, Philadelphia. Brick and stone, 3 stories, 20x34 feet, slag roof, hot water heating, electric lighting, pine floors. Contract awarded to Abel Bottoms & Sons Co., Inc., 3611 Walnut street, Philadelphia.

Store Building, 817 North Broad street, Philadelphia, \$10,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Murray White, Morris Building, Philadelphia. Brick, stone and terra cotta, 2 stories, 18x80 feet, slag roof, steam heating, electric lighting, tile work, pine floors, metal lath, metal ceilings. Contract awarded to D. Henwood, 1509 Wood street, Philadelphia.

Stores and Dwellings (2), 941-43 S. Ninth street, Philadelphia, \$5,200. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, G. Di Negro, on premises. Brick and stone, 3 stories, 15x30 feet, slag roof, hot air heating, electric lighting, metal ceilings, hollow metal skylights. Contract awarded to Frederick Sbarogolia, 703 South Tenth street.

PENNSYLVANIA

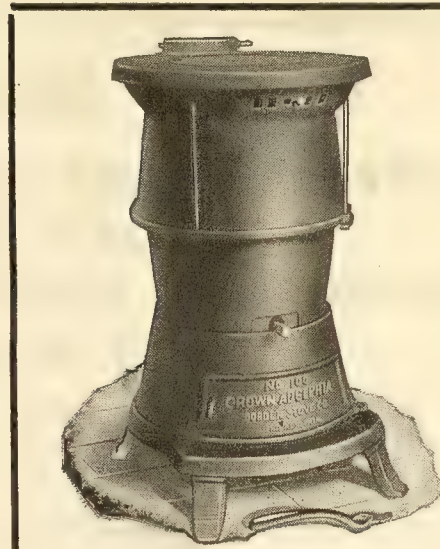
Construction News

School, Landisville, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, School Board of Landisville, Landisville, Pa. Brick, 2 stories, slag roof, steam heating, electric lighting, yellow pine and maple floors. Architect has received bids.

Garage, Harrisburg, Pa., \$16,000. Architects, F. G. Fahnestock and John Raidabaugh, Patriot Building, Harrisburg, Pa. Owner, H. M. Baker, Harrisburg, Pa. Brick, 2 stories, 88x90 feet, tin roof, steam heating, electric lighting, concrete floors, elevators. Plans in progress.

School (add.), South Waverly, Pa. Architect, A. P. Hildebeidle, Commonwealth Building, Harrisburg, Pa. Owners, School District of Waverly, South Waverly, Pa., care of E. E. Rott, secretary, South Waverly, Pa. Brick, 2 and 1 story, 60x52 feet and 52x52 feet, slate roof, steam heating, electric lighting, pine floors, hollow metal sash. Owners taking bids.

Fire House (alt.), Chambersburg, Pa. Architect, R. R. Markley, Patriot Building, Harrisburg, Pa. Owners, Junior Hose Co., Chambersburg, Pa. General interior alteration, new front, cut stone. Owner ready for bids.



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Store and Dwelling, 1414 Point Breeze avenue, Philadelphia. Architect, Herman Kline, Sixth and Mifflin streets, Philadelphia. Owner, Harry Zederman, on premises. Consists of general interior alterations, hot water heating, electric lighting, flush bulks, metal ceilings, plumbing, painting, tile work. Contract awarded to Biers & Cylinder, 521 Mifflin st.

Building No. 9 (alt. and add.), 4200 Wissahickon avenue, Philadelphia. Architect, private plans. Owners, The American Pulley Co., on premises. Brick and steel, 1 story, 68x52 feet, tile roof, concrete floors, rolled steel sash and skylights, iron stairs, concrete floors. Contract awarded to Joseph Bechtel, Fifteenth and Race streets, Philadelphia.

Weldon, 1606 Cherry street, Philadelphia. Owner, F. D. Fleming, Liberty Building, Philadelphia. Brick, 1 story, 60x76 feet (heating, electric work reserved), asbestos roof, cement and pine floors, roof ventilators. Owner has received bids.

Warehouse, Sunbury, Pa. Architects, Stearns, Woodnutt & Schmoll, Stephen Girard Building, Philadelphia. Owners, H. & S. Weis, Sunbury, Pa. Brick (slow burning), 4 stories, 50x125 feet, slag roof, steam heating, electric lighting, maple floors, metal lath, fire doors, elevators. Plans completed. Owners taking bids.

Bungalows and Cottages (49), Hatboro, Pa. Architect, E. Allen Wilson, 1208 Chestnut st., Philadelphia. Owner, E. E. Norton, Hatboro, Pa. Stone, concrete, frame, brick and plaster, various sizes and styles, composition and shingle roofs, gas lighting. Plans in progress. Too early for details.

Home Building, Power House and Tunnel, Lansdowne and Garrettford road, Lansdowne, Pa. Architect, Paul A. Monaghan, Drexel Building, Philadelphia. Owners, New St. Vincent Home, care of Most Rev. Archbishop E. F. Prendegast, Eighteenth and Race streets, Philadelphia. Brick, stone, steel, reinforced concrete, hollow tile and terra cotta, 3½ stories and basement, slate, tile, slag and copper roof, cement, asphalt, composition, maple and pine floors, steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash, copper skylights, fire doors, iron stairs, enameled brick, metal lath (2) elevators, waterproofing, ornamental iron work. Revised plans in progress.

Garage, Wyncote, Pa. Architects, De Armond, Ashmead & Bickley, 1529 Walnut st., Philadelphia. Owner, Alan H. Reed, Wyncote, Pa. Brick, 1 story, 18x20 feet, shingle roof, cement floors, hot water heating. Architect taking bids. Specht & Sperry, Heed Building; W. John Stevens, Inc., Wyncote, Pa., are figuring.

Motion Picture Theatre (alt. and add.), 410 Market street, Harrisburg, Pa. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, P. Magaro, 410 Market st., Harrisburg, Pa. Brick, steel and terra cotta, 2 stories, 210x60 feet, slag roof, city steam heating, electric lighting, tile, marble and terrazzo

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work, hollow metal sash and skylights, fire doors, pine and cement floors, metal lath, roof ventilators. Owners taking bids, due June 21st.

School (int. completion), Lower Providence Township, Montgomery County, Pa. Architects, Schmerhorn & Phillips, 430 Walnut st., Philadelphia. Owners, School Board of Lower Providence Township, Montgomery County, Pa.

Interior completion of present building, including steam heating, electric lighting, pine floors, plastering, metal lath, plumbing, painting. Plans completed. Architects will take bids in a few days.

Residence, Merion, Pa., \$25,000. Architect, John L. Coneys, Drexel Building, Pa. Owner, E. J. Hedden, Finance Building, Philadelphia. Stone, hollow tile and plaster, 2½ stories, 60x47 feet, slate roof, steam heating, electric lighting, tile work, hardwood floors, metal lath. Plans about completed. Owner will sub-let.

Apartment House, Chester, Pa. Architect, Wallace E. Hance, 204 W. Twenty-fourth st., Wilmington, Del. Owner, William Lukens, Crum Lynne, Pa. Brick, 3 stories, 34x18 feet, slag roof, pine floors, electric lighting, tile work (heating reserved). Architect has received bids.

Bungalow Ridley Park, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, T. P. Ward, 226 Henderson avenue, Ridley Park, Pa. Stone and brick, 2 stories, 65x32 feet, slate and slag roof, oak floors, hot water heating, electric lighting, tile and marble work, metal lath, wire work. Architects have received bids.

Garage and Flat, 1st Market street, York, Pa., \$50,000. Architects, Gemmill & Billmeyer, York, Pa. Owner, J. W. Richey, York, Pa. Brick and terra cotta, 3 and 2 stories, 115x230 feet, composition roof, steam heating, electric lighting, hollow metal skylights and sash, fire doors, iron stairs, concrete and wood floors, metal lath, gasoline storage system. Plans in progress.

Church, Dallastown, Pa. Architect, Ed.

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Leber, York, Pa. Owners, St. Joseph's R. C. Church, Dallastown, Pa. Consists of general interior alterations, tile work. Plans in progress.

Residences (5), Lancaster, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owners, H. A. Mettlett, care of John Dorwart, E. Clay street, Lancaster, Pa. Brick, 3 stories, 17x60 feet, tin roof, hot air heating, electric lighting, yellow pine floors. Owners taking sub-bids.

Garage, Brownstown, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, Dr. A. V. Walter, Brownstown, Pa. Concrete block, 1 story, 42x60 feet, slag roof, hot water heating, electric lighting, concrete floors, gasoline storage. Plans completed. Owner sub-letting all contracts.

Factory, Columbia, Pa. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owners, O. K. Clutch & Machine Co., Columbia, Pa. Brick, 1 story, 60x130 feet, slag

roof, steam heating, electric lighting, cement floors. Plans in progress.

Residence and Garage, Lititz, Pa., \$6,000. Architect, H. M. Bartholomew, 39 E. Grant street, Lancaster, Pa. Owner, C. Loeffler, Lititz, Pa. Brick, 3 stories, 36x38 feet and 22x32 feet, slate roof, hot water heating, electric lighting, tile work, wood floors, gasoline storage system. Owner taking sub-bids.

Garage, Honey Brook, Pa. Architects, Estep & Shaub, Lancaster, Pa. Owners, Kennel Bros., Honey Brook, Pa. Brick, 1 story, 46x140 feet, slag roof, steam heating, electric lighting, concrete floors, gasoline storage system. Owners taking bids.

Garage and Servants' Quarters, Gwynedd Valley, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Ralph E. Strassburger, Gwynedd Valley, Pa. Stone, half timber and stucco, 1½ stories, 65x32 feet, shingle roof, cement and pine floors. Plans in progress.

PENNSYLVANIA

Contracts Awarded

Hotel, Third and Walnut streets, Harrisburg, Pa., \$850,000. Architect, W. L. Stoddard, 9 E. Fortieth street, New York City, and Esenwien & Johnson, Buffalo, N. Y. Reinforced concrete, terra cotta and stone, 12 stories, 104x130 feet, composition roof, steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal skylights, fire, kalamein and hollow metal doors, dampproofing and waterproofing, fire escapes, ornamental iron work, maple, cement and pine floors, hollow tile, metal lath, elevators, roof ventilators, metal window guards, wire work. Contract awarded to Nelson & Lewin, 30 N. La Salle street, Chicago, Ill.

Farmers and Merchants Building (alt.), Chambersburg, Pa. Architect, R. R. Markley, Patriot Building, Harrisburg, Pa. Owners, Farmers & Merchants Trust Co., Chambersburg, Pa. Stone, 15x30 feet, marble floors and marble work. Contract awarded to Quigley Hafler, Chambersburg, Pa.

Garage, Hampton road, Rydal, Pa. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owner, Walter E. Hering (Globe Ticket Co.), 112 North Twelfth street, Philadelphia. Stone, brick and stucco or brick, half timber and rough cast, 1½ stories, 25x39 feet, tile roof (plumbing, heating, electric work and fixtures reserved), cement and pine floors, gasoline storage system. Contract

awarded to Edw. D. Lever, Abington, Pa.

Store and Apartments, Marcus Hook, Pa. Architect, E. Canby May, Du Pont Building, Wilmington, Del. Owner, Covington Giles, Marcus Hook, Pa. Brick, 2 stories, 68x22 feet, tin roof, wood floors, hot water heating, electric lighting. Contract awarded to Archibald Knott, Marcus Hook, Pa.

Residence, Flourown, Pa. Architect, Gennaah Jordan, Coopersburg, Pa. Owner, H. L. Barnes, Flourown, Pa. Stone, 3 stories, 40x80 feet, irregular, slate roof, reinforced concrete porches, combination lighting, tile work, cut stone. Contract awarded to David McCork, Flourown, Pa.

School (alt. and add.), Rutherford Heights, Pa., \$8,000. Architect, T. H. Hamilton, 11 N. Second street, Harrisburg, Pa. Owners, School of Swatara, Township of Swatara, Pa. Brick, 1 story, 40x67 feet, composition roof, hot air heating, electric lighting, pine floors. Contract awarded to E. N. Lebo, Rutherford Heights, Pa.

Store, Garage and Apartment, 1421 Derry street, Harrisburg, Pa., \$8,000. Architect, Geo. H. Grove, 213 Walnut street, Harrisburg, Pa. Owner, H. G. Day, 1307 Derry street, Harrisburg, Pa. Brick, 3 stories, 20x65 feet and 20x27 feet, slag roof, cement and hardwood floors, steam heating, electric lighting, wire work. Contract awarded to McWilliams Const. Co., Harrisburg, Pa.

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Residence (alt. and add.), 612 N. Second st., Harrisburg, Pa. Architects, Fahnestock & Reidabaugh, Patriot Building, Harrisburg, Pa. Owner, Mrs. Edw. Boyer, Pine street, Harrisburg, Pa. Brick, rear addition, 1 story, 15x20 feet (steam heat reserved), electric lighting, tile and marble work, hardwood floors, wire work. Contract awarded to John Meyers, Harrisburg, Pa.

Residences (5), Lancaster, Pa. Architect, Malvern R. Evans, Lancaster, Pa. Owners, Bowman & Kendig, Lancaster, Pa. Brick, 3 stories, 20x50 feet, slag roof, hot air heating, electric lighting, tile work, hardwood floors. Contract awarded to Ray Clark, Lancaster, Pa.

Residence, Lancaster, Pa. Architects, Estep & Shaub, Lancaster, Pa. Owners, W. D. Rohner, 18 South Ann street, Lancaster, Pa. Brick, 2 stories, slag roof, steam heating, electric lighting. Contract awarded to Samuel Bally, 514 South Shippen street, Lancaster, Pa.

Residence, E. King street, Lancaster, Pa. Architect, Frank J. Everts, Woolworth Building, Lancaster, Pa. Owner, Chas. Demuth, E. King street, Lancaster, Pa. General interior alterations, tile work, hardwood floors. Contract awarded to W. H. Flick, Lancaster, Pa.

Hospital (add.), West Chester, Pa. Architect, W. W. Smedley, Stephen Girard Building. Owners, Homoeopathic Hospital of Chester County, West Chester, Pa. Stone and brick, reinforced concrete, 3 stories and basement, 64x38 feet, slag roof, steam heating, electric lighting, tile, marble work, rolled steel sash, hollow metal skylights, fire doors, ornamental iron work, reinforced concrete floors, hollow tile, metal lath, elevators, roof ventilators. Contract awarded to Smedley & Hoopes, West Chester, Pa.

Bridge No. 15 (repairs), east of Howellville and Chester Valley Branch and adjoining No. 14 Bridge. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading Rwy., Reading Terminal, Philadelphia. Concrete and steel, 115 feet long, clear span of 5 feet. Contract awarded to H. Denberger Cont. Co., First National Bank Building, Trenton, N. J.

Contonment Camp Sheds (60), Gettysburg, Pa., \$80,000. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Frame, 1 story, felt roof, wood floors. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia.

Cantonment Camp Sheds (90), Gettysburg, Pa., \$180,000. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Frame, 1 story, 26x100 feet, felt roofs, wood floors. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Domestic Hall (Morris Lasker), Doylestown, Pa., \$75,000. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, National Farm School, 1001 Chestnut street, Philadelphia. Stone, brick and plaster, 2½ stories, 35x122 feet and 28x44 feet, slate roof (heating and lighting reserved), oak and pine floors, tile and marble work, fire doors, metal lath, roof ventilators, waterproofing, ornamental iron work. Contract awarded to Specht & Sperry, 1215 Filbert street, Philadelphia.

Church (alt. and add.), Rosemont, Pa., \$45,000. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Episcopal Church of the Good Shepherd, Rosemont, Pa., Dr. Burton Chance, Radnor, Pa., chairman Building Committee. Stone and hollow tile, 1 story, irregular, slate

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roof, steam heating, electric lighting, tile and marble work, tile and reinforced concrete floors, hollow tile, metal lath, roof ventilators

(new chapel, organ room, sacristies, cloister and choir rooms reserved). Contract awarded to J. D. Lengle, Wayne, Pa.

NEW JERSEY

Construction News

Apartment House, Parkway, Atlantic City, N. J. Architect, Seward G. Dobbins, Atlantic City, N. J. Owner, Mahlon W. Newton, Atlantic City, N. J. Brick and stone, 6 stories, 100x128 feet, tile roof, Warren-Webster heating, combination lighting, tile and marble work, hollow metal sash, fire escapes, hardwood floors, elevators, roof ventilators. Plans in progress.

Residence, Merchantville, N. J. Architect, Wm. G. Le Coney, Moorestown, N. J. Owner, Simmons Watkins, Merchantville, N. J. Frame and stucco, 2½ stories, 20x40 feet, shingle roof. Owner taking bids. Stewart L. Maines and Harvey Vennel, both of Moorestown, N. J., are figuring.

Garage and Apartment, Atlantic City, N. J. Architect, Bertram C. Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, 2 stories, 175x40 feet, slag roof, hot water heating, electric lighting, tile work, hollow metal skylights, concrete floors, gasoline storage system. Plans in progress.

Store (add.), Pennsgrove, N. J. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owners, Pennsgrove Bargain Store Co., Pennsgrove, N. J. Brick, second-story addition, slag roof, steam heating, electric lighting, pine floors, metal lath. Plans in progress.

Building No. 17 B. (Cabinet) (alts.), Camden, N. J. Architects, Ballinger & Perrotti, Seventeenth and Arch streets, Philadelphia. Owners, Victor Talking Machine Co., Camden, N. J. Brick, steel and reinforced concrete, 1 story, 154x27 feet, slag roof (heating and

lighting reserved), pine and cement floors, hollow metal sash, rolled steel skylights, fire doors and kalamein doors, iron stairs, ornamental iron work, metal lath, safety treads, waterproofing and dampproofing. Architects taking bids, due June 15th. Irwin & Leighton, 126 North Twelfth street, and Warren & Fisher, Otis Building, Philadelphia, are figuring.

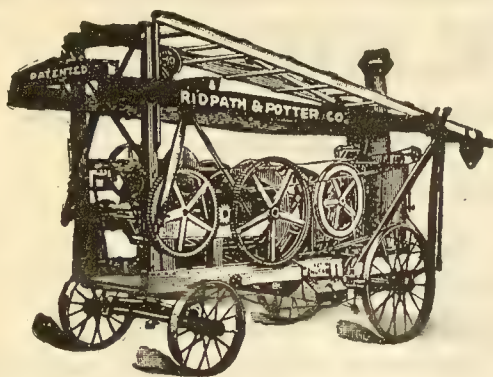
Residence, Browns Mills in The Pines, N. J. Architect, Andrew Charles Borzuer, 717 Walnut street, Philadelphia. Owner, Wm. Rhodenburg, Browns Mills in The Pines, N. J. Frame and stucco, 2 stories, shingle roof, steam heating, tile work, plumbing. Plans completed. Owner will take sub-bids.

Post Office, Vineland, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Govt., Treasury Department, Washington, D. C. Stone, reinforced concrete and brick, 2 stories, 72x59 feet (heating, lighting, plumbing and ventilating separate bids), composition roof, pine and cement floors, marble work, metal lath, kalamein doors, safety treads, metal weather-strip, dampproofing, ornamental iron work. Owners taking bids, due June 27th. Metzger & Fisher, Denckla Building, Philadelphia, are figuring.

Sewage System and Disposal Plant, Palmyra, N. J. Architects, Remington & Vossbury, Sixth and Market streets, Camden, N. J. Owners, Township of Palmyra, Department of Public Works, Palmyra, N. J. Plans in progress.

Store (5) and Shop, Paulsboro, N. J. Architect, Herman H. Kline, Sixth and Mifflin sts.,

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Philadelphia. Owners, L. Gross & Co., 7120 Woodland avenue, Philadelphia. Reinforced concrete and steel, 2 stories, 96x75 feet, slag roof, yellow pine floors, steam heating, electric lighting, tile and marble work, plumbing, metal ceilings, flush bulks, waterproofing. Plans about completed. Architect will take bids in two weeks.

Laundry, Vineland, N. J. Architect, George S. Drew, State Capitol, Trenton, N. J. Owners, Board of Managers, State Home for Feeble Minded Women, Vineland, N. J. Brick, 1 story, 40x116 feet, slag and slate roof (steam heating reserved), electric lighting, concrete floors. Revised plans in progress.

Residences (2), Laurel avenue, Trenton, N. J. Architect, private plans. Owner, Wm. J. Morris, Broad Street Bank Building, Trenton, N. J. Brick, 2½ stories, slag roof, steam heating, electric lighting, hardwood and yellow pine floors. Owner will sub-let.

Workshop, Bordentown, N. J., \$12,000. Architect, F. H. Best, State Capitol, Trenton,

N. J. Owners, Manual Training and Industrial School for Colored Youths, Bordentown, N. J. Brick and concrete, 1 story, 42x110 feet and 15x25 feet, slag roof, steam heating, electric lighting, rolled steel sash, concrete floors, hollow tile, roof ventilators. Architect taking bids, due June 22nd. Charles H. Fennimore and Glancey & Brown, 114 Farnsworth street, both of Bordentown, N. J., and George R. Lincoln, Yardville, N. J., are figuring.

Almshouse (alt.), Asyla, Camden, N. J. Architect, Thomas Stephen, Masonic Temple Building, Camden, N. J. Owners, Camden County Board of Freeholders, E. Frank Pine chairman committee, County Court House, Camden, N. J. Brick and steel, 3 stories and basement, tin roof, hot water heat, electric lighting, hollow metal skylights, kalamein doors, cement and asphalt floors, metal lath, ornamental iron work. Low bidders, Evans Const. Co., 9 South Eighteenth street, Philadelphia, \$27,567; George Bachman, 19 South Thirtieth street, Camden, N. J., \$27,828; Fred Lange, Audubon, N. J., \$32,400.

NEW JERSEY

Contracts Awarded

Crusher Plant, Paulsboro, N. J. Architect, Engr. Dept., Harrison Bros. & Co., Inc., Thirty-fifth and Grays Ferry road, Philadelphia. Owners, Mantua Chemical Co., Paulsboro, N. J. Brick, 1 story, 41x10 feet and 65x10 feet, asbestos roof, cement floors, metal lath, steel sash. Contract awarded to Geo. Tomlinson & Son, 2619 South Fifteenth street, Philadelphia.

Coal Bins and Equipment, Atlantic City, N. J. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Atlantic City RR. Co., care of P. & R. RR. Co., Philadelphia. Coal bins, equipment, etc. Building coal bins awarded to Newton W. Knauer, 132 S. New York avenue, Atlantic City, N. J., and equip-

ment awarded to R. H. Beaumont Co., Drexel Building, Philadelphia.

School, Rancocas, N. J., \$6,500. Architects, Moffett & Stewart, Inc., 30 North Third st., Camden, N. J. Owners, Board of Education, Willingboro Township, Burlington County, N. J. Frame, 1 story, 40x75 feet, shingle roof, North Carolina pine floors. Contract awarded to J. A. Kolster, Beverly, N. J.

Garage, Mulberry street, Trenton, N. J. Architect, private plans. Owners, J. E. Stevenson Co., Trenton, N. J. Brick, 1 story, slag roof, electric lighting. Contract awarded to C. Y. Barlow, Trenton, N. J.

Residence (alt. and add.), 325 South Broad

street, Trenton, N. J. Architect, private plans. Owner, Harry Spector, on premises. Consists of interior alterations and small addition. Brick, slag roof, plumbing, electric lighting, yellow pine floors. Contract awarded to Mr. Dickneit, Trenton, N. J.

Hotel, Avalon, N. J., \$15,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner's name withheld. Frame, 2 stories and basement, 90x40 feet, wing 20x40 feet, shingle roof, hot water heating, combination lighting, North Carolina pine floors, metal lath, roof ventilators. Contract awarded to Evans Const. Co., 9 South Eighteenth street, Philadelphia, but not yet signed.

Cantonment Camp, Wrightstown, N. J. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Frame, 1 story. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Passenger Station and Shelter, Plainsboro, N. J., \$13,000. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, stone trim, 1 story, 53x20 feet, and 1 story, 42x10 feet, slate roofs, cement and pine floors, marble work, steam heating, electric lighting, metal lath, metal window guards, ornamental iron work. Contract awarded to Matthews Const. Co., Princeton, N. J.

Miscellaneous Construction News

Power Houses (2), Navy Yard at Philadelphia and Norfolk, Va. Architect, private plans. Owners, U. S. Govt., Bureau of Wharves and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Reinforced concrete and steel, 1 story and mezzanine, 265x97 feet, slag roof (heating, lighting, plumbing and ventilating separate bids), concrete and composition floors, hollow tile, metal lath, elevator, rolled steel sash, fire doors, ornamental wire work, metal window guards, wire work. Low bidders: First, M. J. Roche Const. Co., 301 Johnson Building, Cincinnati, O.; second, Warren, Moore & Co., Commercial Trust Building, Philadelphia.

Residence, Savannah, Ga. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, name withheld. Stone and frame, slate or shingle roof, hardwood floors, tile work. Plans in progress. Ready for bids in ten days.

Power Plant Equipment, Naval Training Station, Newport, R. I. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Furnishing and installing turbo alternators, condensers, pumps, exciters, boilers, stokers, draft fans and piping. Owners taking bids, due June 18th at 11 A. M.

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Delaware Construction News

Parish House and Rectory, Wilmington, Del. Architects, Zantzing, Borie & Medary, Otis Building, Philadelphia. Owners, St. Johns Episcopal Church, Wilmington, Del. Stone, 3 and 2 stories. Plans in progress.

Bungalow, Mill Crest, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, A. P. Stevenson, King street, Wilmington, Del. Frame, 1½ stories, 32x55 feet, single roof, yellow pine floors. Plans completed. Architect ready for bids.

Store and Apartments, Tenth and French streets, Wilmington, Del. Architect, W. E. Hance, 204 W. Twenty-fourth st., Wilmington, Del. Owner, Dr. S. G. Elbert, Tenth and French streets, Wilmington, Del. Reinforced concrete and brick, 4 stories, 50x80 feet, slag roof, steam heating, electric lighting, waterproofing, fire doors, tile work, cabinet work, dumbwaiters. Architect taking sub-bids.

Garage, Hancock street, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, Frank S. Dure, 1509 Franklin street, Wilmington, Del. Brick, 1 story, 100x100 feet, slag roof, hot water heating, electric lighting, concrete floors. Architects taking bids and will also take sub-bids. Chas. H. Tindall and Chas. J. Dougherty, both of Wilmington, Del., are figuring.

Tire Shop (alt.), Delaware avenue and West street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, N. W. Howell, on premises. General interior alterations, brick, 3 stories. Plans in progress.

Store and Apartments (alt.), 210 W. Seventh street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Nicholas White, on premises. General interior alterations, metal bulks. Plans in progress.

Garage, Eighth and Adams streets, Wilmington, Del. Architect, R. O. Tindall, 904 Orange street, Wilmington, Del. Owner, Frank S. Dure, 1509 Franklin street, Wilmington, Del. Brick, 2 stories, 23x30 feet, slag roof, wood floors, electric lighting. Contract awarded to Chas. J. Dougherty, Wilmington, Del.

Apartment House, southwest corner Tenth and Orange streets, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Henry Hinger, Wilmington, Del. Brick 4 stories and basement, 76x21 feet, Ebret asphalt roof, hot water heating, electric lighting, tile work, pine and tile floors, metal lath, hollow metal skylights, iron doors. Contract awarded to John E. Haley & Sons, Wilmington, Del.

Maryland

Construction News

Bank and Office Building (alts.), Liberty and Lexington streets, Baltimore. Architect not yet selected. Owners, Park Bank Building Co., George W. Walther, president, 110 West Lexington street, Baltimore. Work contemplated.

Cafe and Dwelling, 1001-3 East Lombard street, Baltimore. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owner, Meyer Bloom, on premises. Brick, 3 stories and basement, 27x57 feet, slag and tile roof, metal ceilings, tile, marble and terrazzo work, stone work, cement work. Plans completed. Architect ready for bids.

Residence and Garage (alts.), Cedarcroft, Md. Architect, Fred Thomas, Gunther Building, Baltimore. Owner, G. J. Halter, 4600 York Road, Baltimore. Frame and concrete work, slate roof, electric lighting. Plans in progress.

School No. 47, Linwood avenue, Fleet and Streeter streets, Baltimore. Architect, A. C. Leach, 323 North Charles street, Baltimore.

Owners, Board of School Commissioners of Baltimore, Baltimore, Md. Brick (fireproof construction), 3 stories, 146x45 feet, concrete foundation, marble or granite trim, ventilators, metal lath, ornamental iron work, plastering, metal lath, tile, marble and slate roof, terra cotta, waterproofing (electric work, heating, plumbing and vacuum cleaning system reserved). Revised bids will be advertised for shortly.

MARYLAND

Contracts Awarded

Residence (alts.), 122-24 West Franklin st., Baltimore. Architect, James Posey, 925 Fidelity Building, Baltimore. Owner, Dr. R. H. Peters, 1337 Mt. Royal avenue, Baltimore. Consists of general interior alterations, electric lighting, plastering, plumbing, painting. Contract awarded to Cogswell-Koether Co., 406 Park avenue, Baltimore.

Dairy and Stable Building, 1048-50-52 Granby street, Baltimore. Architect, George R. Callis, 218 East Lexington street, Baltimore. Owners, Snelis Dairy Co., on premises. Brick

and concrete, 2 stories, 85x100 feet, slag roof, skylights, plastering, painting, plumbing, hardware, waterproofing, varnishing (electric work reserved). Lowest bidder, Louis Ulman, 418 Aisquith street, Baltimore.

Garage, Edgevale and Harvest Roads, Roland Park, Md. Architect, Edw. F. Palmer, Jr., 1620 Munsey Building, Baltimore. Owner, J. Evans Reese, on premises. Frame and stucco, concrete foundation, shingle roof, electric lighting. Contract awarded to Wilson Const. Co., Calvert Building, Baltimore.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garages (12), Forty-ninth street, south of Arch street, \$4,200. Chas. Smith & Son (O and C), 4215 Haverford avenue. Brick, 1 story, 10x16 feet, slag roof, hot water heating.

Temporary Freight House, Puddlehole lane and Pollock street, \$700. P. R. R. (O and C), Broad Street Station. Wood, 1 story, 20x20.

Temporary Car Inspectors Building, Twenty-fifth and Shunk streets, \$300. The Penna. R. R. (O and C), Broad Street Station. Wood and iron, 1 story, 18x14 feet.

Dwelling, 2650-52 Belgrade street, \$4,000. John Jamison (O and C), 2584 Huntingdon street. Brick, 2 stories, 16x24 feet, slag roof, hot water heating.

Garage, Nineteenth and Cumberland streets, \$450. Dr. M. E. Usilton (O), 2463 North Nineteenth street. Van Dyke & Dawson (C), 2842 North Twenty-sixth street. Brick, 1 story, 9x16 feet, tin roof.

Garage, Sixty-second and Irving streets, \$2,000. I. P. Clark (O), 266 South Sixtieth st. John P. Fallon (C), 449 South Sixtieth st. Brick, 1 story, 60x43 feet, concrete floor, slag roofing.

Garage, 6044 Larchwood avenue, \$2,100. Frank P. Fallon (C), 449 South Sixtieth st. Brick, 1 story, 18x47 feet, slag roof.

Garage, 6416 North Eleventh street, \$350. E. T. Ballard (O and C), on premises. Stone, 1 story, 18x22 feet, slate roof.

Factory, 927-29-31 North Front street, \$50,000. Simon Wiel (O and C), 237 North Third street. Brick and stone, 5 stories, 65x155 feet, slag roof, steam heating.

Dwellings (10), Walnut and Fifty-eighth streets, \$36,500. Saidel & Feldman (O and C), 208 North Sixty-first street. Brick, 2 stories, 16x33 feet, slag roof, hot water heating.

Garage and Greenhouse, Washington lane and Ogontz avenue, \$1,000. Ed. F. Swingle (O), on premises. Swingle Bros. (C), 2623 N. Hagert street. Stone garage, 1 story, 22x24 feet; greenhouse, 14x56 feet.

Dwellings (10), Horton and Emlen streets, \$60,000. Robert Killough (O and C), Wayne and Duval streets. Stone and brick, 3 stories, 21x36 feet, slate roof.

Dwellings (16), Ninth and Lycoming ave., \$40,500. John T. Clusby (O and C), 4553 N. Eighth street. Brick, 2 stories, 16x35 feet, slag roof, hot water heating.

Hospital, 1234 North Fifty-fourth street, \$40,000. W. Phila. Homeopathic (O), 1234 N. Fifty-fourth street. Wm. Linker Co. (C), 831 Cherry street. Brick, reinforced concrete, 2 stories, 37x85 feet, slag roof.

Dwelling, Welsh road, south of Newtown road, \$4,500. El. Fulman (O), Bustleton. C. H. Weiss (C), Bustleton. Stone and frame, 2 stories, 26x28 feet, asbestos roof, hot water heating.

Garage, 4666 Wyoming avenue, \$300. Thos. Duff (O and C), 3648 Frankford avenue. Brick, 1 story, 166x16 feet, slag roof.

Dwelling, 608 E. Girard avenue, \$6,200. H. J. Saecker (O), 25166 Richmond street. Philip Huiaback (C), 1261 North Twenty-sixth street. Brick, 3 stories, 16x28 feet, slag roof, hot water heating.

Garage, 1221 Somerville street, \$1,080. B. F. Ellis (O), on premises. R. W. Treunor (C), 3234 North Broad street. Hollow tile, 1 story, 14x20 feet.

Garage Office and Dwelling, Franklin and Oak Lane avenue, \$9,000. P. A. Waltz (O and C), 6610 North Seventh street. Brick, 2 stories, 50x20 feet, slag roof, hot water heating; 1 story, 50x90 feet.

Factory, Delaware avenue and Buckius st.,

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\$8,000. Penna. Forge Co. (O), Wakeling and Frankford avenue. Ed. F. Bender (C), 6014 Torresdale avenue. Reinforced concrete and steel, 1 story, 60x105 feet, slag roof.

Garage, rear 2411 North Fifty-second street, \$600. N. C. Ives (O), on premises. Mower Bros. (C), Merion, Pa. Hollow tile and brick, plaster, shingle roof, 1 story, 14x22 feet.

Garage, 152 Apsley street, \$400. L. Dasher (O and C), on premises. Brick, 1 story, 18x20 feet, slag roof.

Office, 3611 Walnut street, \$10,000. Sarah Bottoms (O), 3601 Walnut street. Abel Bottoms & Son Co. (C), 3611 Walnut street. Stone and brick, 3 stories, 20x34 feet, slag roof.

Garage, Cheltenham and Park avenues, \$850. John D. Reeves (O), on premises. Ed. B.

McCall (C), Sixty-fifth and Park avenue. Stone, 1 story, 20x20 feet, cement floors, shingle roof.

Storage Shed, Passyunk avenue, \$1,500. U. G. I. Co. (O and C), Broad and Arch streets. Iron on iron, 1 story.

Club, 1811-17 Ranstead street, \$40,000. Musical Art Club (O), Seventeenth and Chestnut streets. H. E. Grau Co. (C), 1707 Sansom street. Brick, reinforced concrete, 2 stories, 62x50 feet, slag roof.

School, Spring Garden and Thirty-eighth streets, \$130,000. Most Rev. E. F. Pendergast (O), Eighteenth and Race streets. John McShain (C), 1610 North street. Brick and concrete, 3 stories, 150x56 feet, tile roofing, steam heating.

Wash House, 249 Collom street, \$1,100. Cheltenham Knitting Co. (O), on premises. Geo. Casson (C), Locust avenue and Chew street. Brick, 1 story, 16x20 feet addition, alterations.

Dwelling, 125 W. School lane, \$500. Theo. Conroy (O and C), on premises. Brick, 1 story, 9x12 feet, shingle roof.

Store and Residence, 2519 Girard avenue, \$800. Jos. Decater (O), 2523 Girard avenue. E. Clifford Durell (C), 1713 North Twenty-fourth street. Brick, second story addition, 14x60 feet.

Dwelling, 5315 Master street, \$300. Mrs. Youdall (O), on premises. Sam. Rogers (C), 5312 Thompson street. Second-story addition, 15x11 feet, tin roof.

Store and Dwelling, 1244-46 South Seventeenth street, \$900. Sam Nemriw (O), 522 Race street. B. Shesback & Co. (C), 528 Race street. Alterations.

Loading and Storage Shed, Ridge avenue, above Calmet Hill, \$14,500. Powers, Weightman Rosengarten (O), Ninth and Parrish sts. R. C. Ballinger Co. (C), 218 North Thirteenth street. New roof, slag on walls, about 112x80 feet and 38x86 feet, fire damage.

Store, 2013 Market street, \$1,000. J. H. Schall (O), 011 Market street. Stacy Reeves & Sons (C), 2011 Market street. New brick front and plate glass.

Garage and Dwelling, 1304 South Third street, \$400. A. Uzumeki (O and C), 306 Wharton street. Brick, 1 story, 16x16 feet, slag roof.

Dwelling, 2928 W. Lehigh avenue, \$620. W. C. Hulshizer (O), on premises. Kriebel & Co. (C), 826 Spring Garden street. Steam heating system.

Store, 1025 Market street, \$1,000. Earls Store Co. (O), Tenth and Market streets. Omeara Cont. Co. (C), 253 South Quince st. Close 3 openings, first floor.

Store and Dwelling, 1812-4 North Second street, \$900. A. Fessler and E. Sopolow (O), 1944 North Fifth street. David Sopolow (C), 421 Dudley street. Two new flush bulks.

Stable, northeast corner Third and Jackson streets, \$2,600. Jas. Denne (O), on premises. H. D. Prettyman (C), 2603 South Broad street. Change into small garages, metal partitions.

Garage, 321 E. Price street, \$400. John Cardamom (O), 124 Maple street. P. J. Cardamom and Wm. Schuler (C), 321 E. Price st. Stone, 1 story, 20x32 feet, slag roof, skylight.

Alterations and Additions

Dwelling, 5505 Germantown avenue, \$30,000. Y. M. C. A. (O), 5503 Germantown avenue. W. L. Grubler Co. (C), 219 High street. Brick, 3 stories addition, 23x64 feet, tin roof, fire tower, interior alterations.

Store and Dwelling, Forty-first and Girard avenue, \$2,000. F. Egenhoff (O), on premises. J. Gorchov (C), 4116 Girard avenue. Brick, 1 story, 18x12 feet, flush bulk.

Boiler House, Richmond and Frankford avenues, \$7,000. G. and H. Barnett Co. (O), 1078 Frankford avenue. M. Ward Easley, Inc. (C), 1420 Chestnut street. Brick, 1 story, 30x70 feet, slag roof.

Garage, 3028-30 Aramingo avenue, \$3,500. Abert Hass (O), 3027 Memphis street. Frank J. Wintz (C), 1618 North Twenty-seventh st. Brick, 1 story addition, 35x69 feet, slag roof.

Store and Dwelling, 1237 Buttonwood st., \$430. Leopold Schmid (O), on premises. Frank I. Wintz (C), 1618 North Twenty-seventh street. Interior alterations.

Garage, 2709-11-13 Wharton street, \$4,500. Chas. Roesburg (O), 2800 Wharton street. Chas. Rutherford (C), 651 North Tenth street. Brick, 1 story, 13x56 feet, slag roof.

Dwelling, 1213 Silver street, \$1,400. Franklin Hall (O), 1211 W. Lehigh avenue. H. P. Werner (C), 3245 Germantown avenue. Brick, 1 story rear addition, 9x12 feet, interior alterations.

Dwelling, 7432 Devon street, \$650. Hannah A. White (O), 7428 Devon street. Wm. Thompson (C), 1529 Filbert street. Brick, 1 story, 10x11 feet, tin roof.

Dwelling, 637 Carpenter street, \$450. John Viggiano (O), on premises. Chas. Di Santo (C), 939 South Sixth street. Brick, 2 stories, 11x16 feet, tin roof.

Dwelling, 212 North Thirty-fourth street, \$1,500. Geo. H. Rogers (O), 207 N. Thirty-fourth street. F. T. Mercer Co. (C), 1706 De Lancey street. Interior alterations.

Warehouse, Swanson and McKean streets, \$25,000. Judia Refining Co. (O), on premises. J. R. Jackson (C), Perry Building. Fire damage, no addition.

Dwelling, 509 Woodland Terrace, \$1,000. M. H. Bohlem (O). Leroy K. Smith (C), 4007 Chester avenue. Stone, 1 story, 8x9 feet, tin roof, general repairs.

Dwelling, 3789 Cresson street, \$400. J. Neild (C), on premises. Elmer Ceithbutson (C), 234 Roxborough avenue. Extend the present kitchen 3 feet deeper, tin roof.

Store and Dwelling, 126 North Fifteenth street, \$400. Jos. T. Jackson (O), on prem-

ises. V. Di Domenico (C), 3434 Lancaster avenue. Change stairway.

Dwelling, 2631 E. Norris street, \$700. Mary E. Gallagher (O), 1244 South Second street, Camden, N. J. H. C. Zingroff (C), 2527 N. Seventh street. Brick front.

Y. W. C. A. Building, 5503 Germantown avenue, \$300. McClintock & Weaver (C), 24 W. Phil Ellena street. Interior alterations.

Greenhouse, 9400 Frankford avenue, \$400. Jas. S. Griffin (O and SC), on premises. Addition, 40x49 feet, same construction as present building.

Store and Dwelling, 1414 Point Breeze avenue, \$1,400. H. Vederman (O), on premises. Bierns & Cylinder (C), 521 Mifflin street. New bulk, interior alterations.

Dwelling, 1303 South Hicks street, \$400. Sal Sarraiani (O), 926 Ellsworth street. Alfonso Pili (C), 1209 South Thirteenth street. Brick, 2 stories, 11x13 feet, slag roof.

Store and Dwelling, 1724 South Sixth st., \$975. Rosie Cohen (O), 1541 South Seventh street. C. Yacknitz (C), 1202 North Seventh street. Fire repairs.

Warehouse, 1713-15 Ranstead street, \$2,000. J. C. Mellon (O), Haverford. Geo. C. Dougherty (C), 1725 Ludlow street. Raise roofs and roof.

Dwelling, 2207 St. James street, \$650. F. A. Lewis (O). Owen Fogarty (C), 1918 Cherry street. Brick elevator shaft, 3x3 feet, inside, 52 feet 6 inches high, wire glass, skylight.

Dwelling, 4666 Wyoming avenue, \$500. Thos. Duff (O and C), 3648 Frankford avenue. Brick, 2 stories, 24x14 feet, tin roof.

Dwelling, Wayne avenue and Johnson st., \$32,000. John D. McIlhenny (O), Germantown. H. H. Burrell (C), 206 South Quince street. Stone, 3 stories, 20x22 feet, additions, interior alterations.

Office, 1521 Filbert street, \$1,000. Penna. R. R. Co. (O), Broad Street Station. Wark Yardley Co. (C), 1737 Filbert street. Interior alterations.

Store and Dwelling, 519 South street, \$5,000. Wilner & Poliner (O), 418 Market street. Harry Miller (C), 427 Catharine street. Brick, 3-story rear additions, 20x40 feet, slag roof.

Dwelling, Fountain and Silverwood streets, \$3,000. Albert Keller (O and C), 4540 Wyth avenue. Stone and brick, 2 stories, 16x45 feet, slag roof, hot water heating.

Storages, 1450 Grays Ferry road, \$1,000. F. P. Bell (O), 4828 Woodland avenue. Sam. R. Edge (C), 5014 Willow avenue. Interior alterations.

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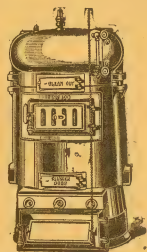
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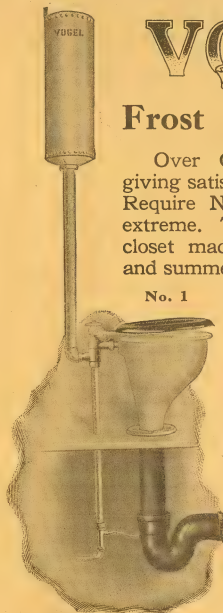
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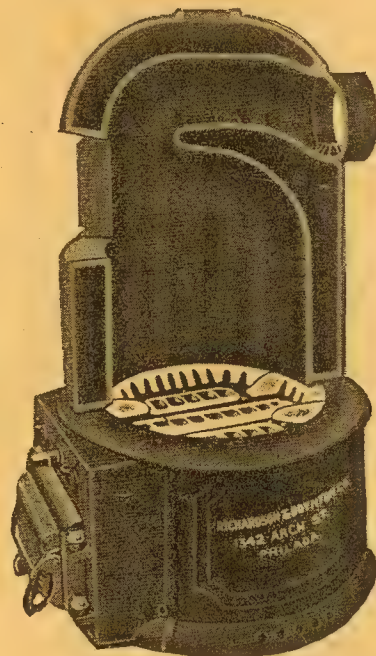
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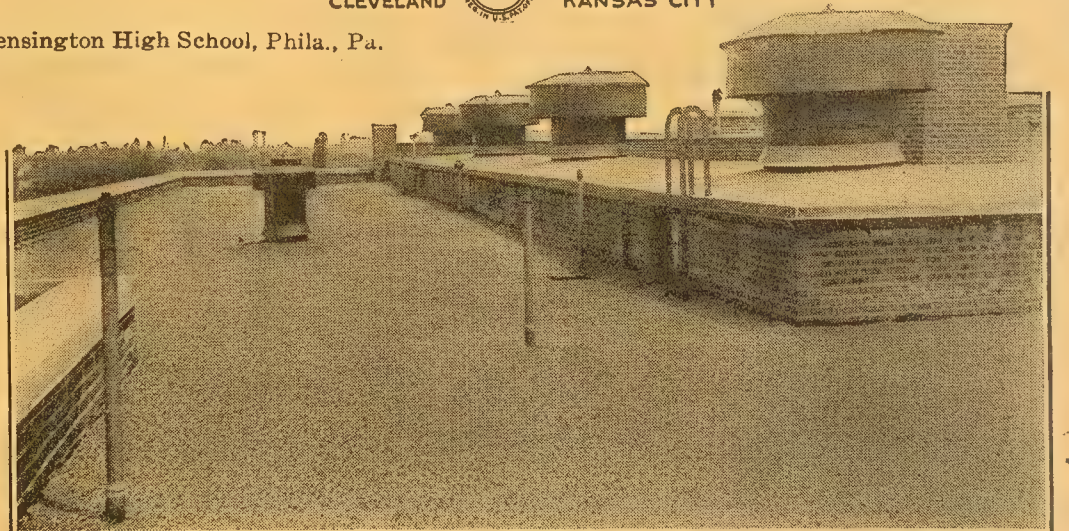
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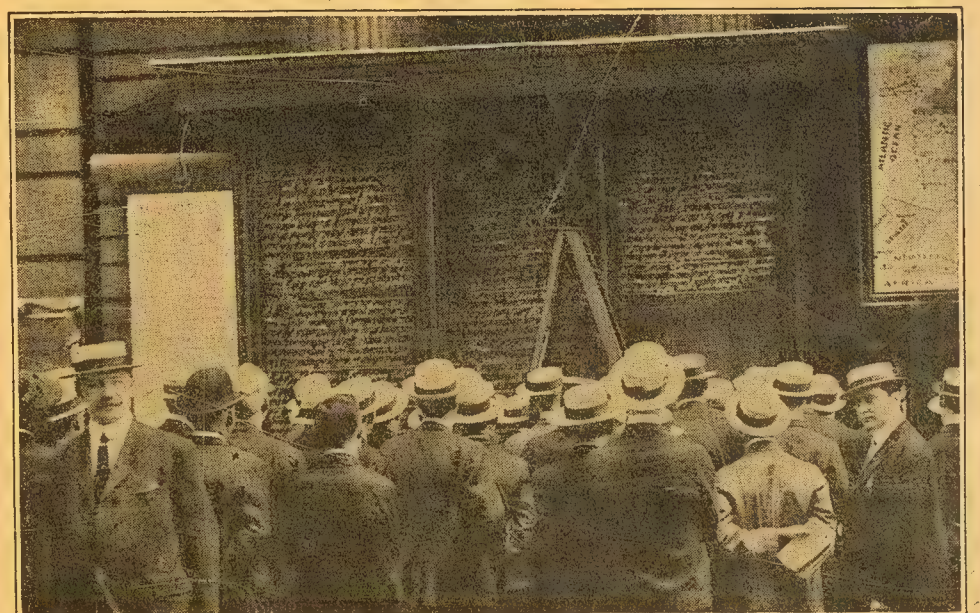


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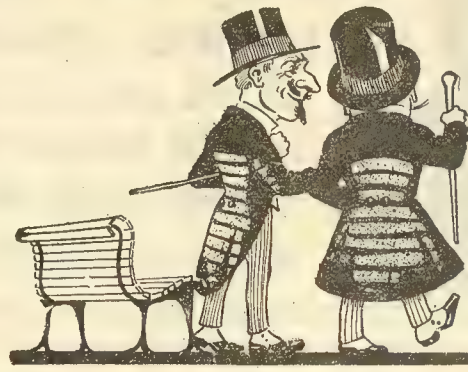
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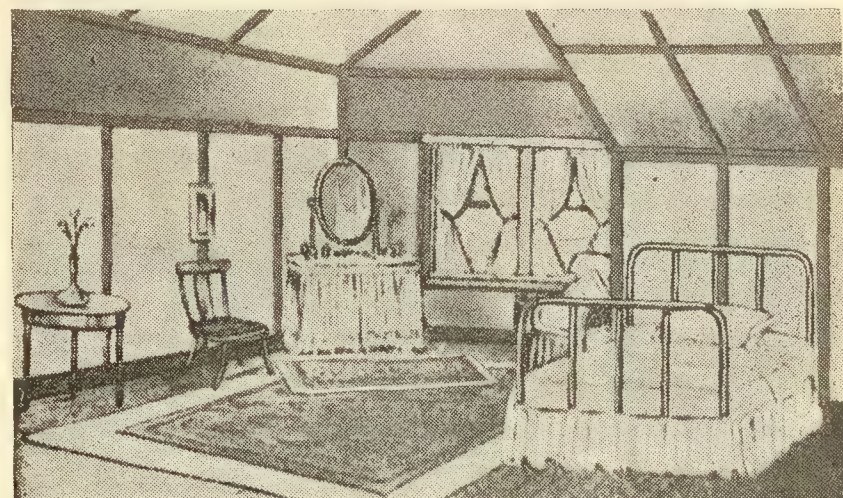
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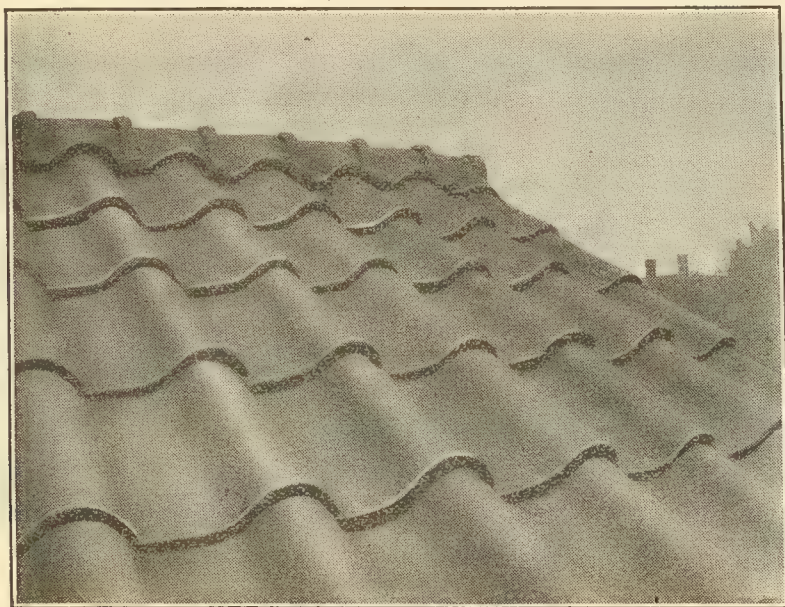
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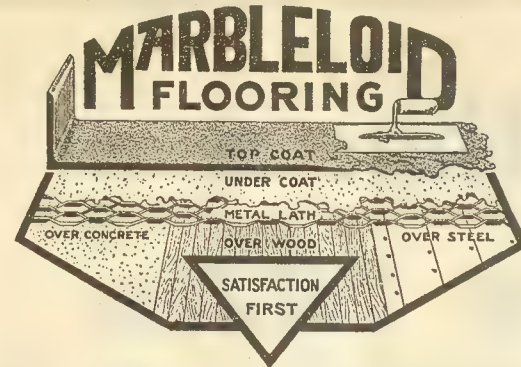


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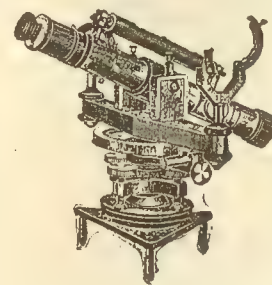
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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Number 25

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As The Editor Sees It



THE greatest evil the building trades are called upon to face, in the crisis now facing the country, is the pessimistic attitude of the fellow who takes the position that he "isn't going to do any business until things clear up."

Pressed to explain just what he means by "clearing up" he goes into an extended monologue about the scarcity of labor, the advancing prices of materials, the uncertainty regarding deliveries, the possibility of a crop shortage, and a lot of other twaddle in the doleful, dubious and depressing vein that would move one to think that the Germans were about to descend upon us from two sides and push us into the great Salt Lake.

Whereas the real facts of the case are that the Germans are hemmed in on all sides, are being slowly but surely ground to defeat, are facing an internal situation scarcely less desperate than that which threatens them from without and are likely to collapse long before our carefully made plans for mobilization are half completed.

* * *

THERE are, to be sure, serious sides to the present situation. Labor is undoubtedly high and scarce and certain to be, if anything, higher and scarcer within the next six months. Material costs are still advancing in many lines with little if any prospect of an ebb movement. Deliveries continue to be uncertain in certain classes of ma-

terial and are likely to remain uncertain for some time to come. But on the other hand, money was never more plentiful, sales are brisk at advanced prices, and many lines of industry will be compelled by the war demand for their products to double and triple their present facilities.

Operative and investment builders who have had the hardihood to go ahead with their projects despite the obstacles inherent in the present situation report sales easy, the demand greater than it has been for many years past and considerably advanced prices no bar to sale or lease. So acutely is this the case that many of the operators who at the outset of the alarm incident to our entry into the war took to the cyclone cellar there to await a clearing of the atmosphere are up and about again ready to resume business where they left off.

* * *

THE fellow who has waited, hoping for prices to come down may as well make up his mind that the miracle for which he has been waiting is not due to happen either this year or the next—if it happens at all.

Indeed, some of the shrewdest observers in the trade are of opinion that material and labor prices are up to stay and that the era of cheap building has gone never to return. How the situation faces up in other cities may be fairly gauged by an article in the current number of the *New York Real Estate Record*. Commenting upon the building situation

in that city the writer remarks:

"Military construction continues to be the predominating feature of the building situation at the present writing. The past week witnessed the award of some important contracts for Government work and there is a large amount of this type of business still in prospect. A number of prominent building concerns in New York City and vicinity have recently become identified with construction of this character and although the profits to be derived are not particularly imposing they are at least certain, and the bidding has been spirited and the competition quite keen. Private building operations are languishing somewhat and there are not many new structural projects being reported to the trade. Alteration work is fairly active and these is a good quantity in sight. There seems to be a growing feeling in the building industry that the conditions that have maintained for some weeks will improve shortly and that they would immediately show a decidedly better front if it were not for the difficulties encountered in obtaining prompt deliveries of materials, especially structural steel.

* * *

MANY architects throughout this city and surrounding territory have clients that are ready and willing to commence the construction of large buildings but who are holding off for the one reason that deliveries of structural materials, particularly steel,

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are so uncertain that it makes starting a perilous operation. To the majority of this type of owners the cost of the building is a matter of secondary consideration. The proposed structures are matters of economic necessity to the owners and they are quite willing to commence work immediately and notwithstanding the present high cost of materials, if they could obtain some assurance that their materials and supplies would be forthcoming within a reasonable space of time.

"The labor situation is daily becoming more trying to the building industry, not only to the contractors, but to the manufacturers of various structural materials. Practically every branch of the building and construction business will shortly have to deal with the important problem which will result as a natural consequence from the conscription of young men for the new army. Quite a large percentage of the employees of the factories and concerns that produce materials of construction are young men subject to the draft and it is equally true that many of those actually engaged in construction work, lumbering and similar employment are likewise awaiting the call of the Government to military duty. The problem that is now confronting the building industry is how to fill the gaps left in the ranks by the call to the colors.

* * *

BUILDING material prices, while not advancing at the rate they were a short time ago, are still in the main upon the upward trend. Some commodities seem to have become stabilized but others are indicating a decided tendency toward higher levels and there is no one willing to hazard even a guess as to when they will return to the normal. The chances that structural materials will again come back to the prices that maintained a few years ago are growing less daily. The demand is still strong from many quarters and although the domestic requirements should suddenly fall off there will continue to be a heavy demand from European sources after the war is ended that will keep the prices high for years to come. Since the declaration of war there have been contracts closed to the extent of about forty millions of dollars for the reconstruction of important structures in the ruined sections of France. For the rebuilding of these wrecked structures a large percentage of the materials will be purchased in the United States. The contracts already placed are said to be the forerunners of a mighty building movement in the devastated territory that will take years to rehabilitate and which will require the expenditure of millions of dollars and call for millions of tons of materials, the most of which will be the product of American manufacturers."

THE reports of the building interests from the territory adjacent to Greater New York indicate that the structural industry is holding its own in a satisfactory manner and that the outlook for a continuation of fair business is bright. There is a feeling growing in the building trades that the depression that has existed for some weeks subsequent to the declaration of war is almost over and that the industry will return to its normal balance in a short time. While no boom is expected, there will no doubt be a resumption of building activities that will have the effect of stabilizing conditions to a remarkable degree."

* * *

THAT which is needed just now to stabilize things is a good, strong dose of business optimism. Under the heading of "War-Time Wisdom" *The Philadelphia Chamber of Commerce Journal* prints the following:

"Practice economy, but not parsimony; cut out waste, but maintain the American standard of comfort."

"War is bad business, but don't you ever make the mistake of thinking that war means bad business."

"It takes a dozen farmers, mechanics, trainmen, butchers, bakers, tailors and shoemakers to maintain a soldier."

"We can't put a million men under arms without putting at least twelve mil-

lion other men under the eight-hour clock."

"Factories must work day and night shifts, railroads will operate extra trains, produce will ride to port from every arable acre on the continent."

"Get busy and keep busy. Hire new help, enlarge your plant, order machinery at once."

"However sad the price, the business outlook was never better."

* * *

THIS has the right ring to it. What we need more than anything else is confidence, confidence in ourselves, confidence in our government, confidence in our fellow-men, confidence in our business.

It's a pretty big contract that which democracy is undertaking abroad, but it is in the hands of men big enough and numerous enough to handle it and there need be no doubt whatever regarding the final outcome.

And in the wake of peace there is going to be such a boom in every line of American industry as this strong, young nation has never known. All Europe is practically to be rebuilt. We are elected to do the rebuilding. Are we preparing to make the most of our opportunities?

* * *

LET us get rid of the gods of doubt, of gloom and pessimism and get ready to keep step with the march of progress.

EDITORIAL NOTES

Some of the prominent manufacturers of builders' hardware have again announced increases in prices. The advance in the majority of instances is due to the increased manufacturing costs, which are in turn caused by the scarcity and high prices of metals and other raw materials and the difficulties experienced in obtaining adequate labor.

* * *

The new Board of Governors of the Lumber Trades Club of New York, at their recent meeting, elected Aruthur C. Crombie to the office of president, succeeding Van W. Tyler, whose term expired last month. The other officers are C. H. Hershey, first vice-president; John L. Cutler, second vice-president; Charles Hill, third vice-president; Frank L. Zabriskie, treasurer, and E. F. Perry, secretary.

* * *

The Master Tin and Sheet Metal Workers' Association of Philadelphia, at the regular monthly meetin, took up the question of improving the service of its Credit and Collection Bureau, and adopted the recommendation of the Board of Directors to install the "Credit Reporting Service" of the Commercial Reference Company of Philadelphia. Members of the Association can now call up

the office and get information on the financial standing of any individual to whom they propose extending credit. This information will be given free of charge, but should an exhaustive report, entailing property searches, etc., be desired, \$1.00 will be charged.

* * *

At the recent annual meeting of the Stove Founders' National Defense Association officers were elected for the coming year as follows: President, George Mitchell, Pittston, Pa.; first vice-president, Lewis Moore, Joliet, Ill.; second vice-president, Joseph L. Anthony, Taunton, Mass.; secretary, Robert W. Sloan, Pittston, Pa.; treasurer, William A. Dwyer, Detroit, Mich.

* * *

Samples of the company's high-grade roofing plate, mounted on a celluloid holder to be hung on the wall or desk have recently been distributed by the Merchant & Evans Co., Philadelphia, Pa. These samples comprise sheets 5 by 7 inches, separated with heavy paper, on which there is information relative to the company's several products. For example, the first sheet contains the following: "These samples of 'Merchant's Old Method' and of four other of the better known brands of our terne plates are presented, so that

choice may be made from sections of actual sheets of the brand best suited to the needs of any case. High Grade Terne Plates today are better made than ever before, and the popularity of Tin Roofing, after a period of decline, has greatly increased in the past two or three years, because the owner has come to know that Tin Roofing is the most durable, longest-lived, cleanest, best looking, lightest and safest protection against fire, lightning and the elements. Moreover, tin is not a specialty, and can be obtained anywhere at any time for repairs and extensions."

* * *

B. J. Sigmund, the Philadelphia representative of the Trussed Concrete Steel Company, says now is the time to build a house, factory or store. What, you cry, with these high prices of labor and materials? Yes, says he, because you will find them dearer in the future. Mr. Sigmund gives me his reasons for thinking that labor will be exceedingly scarce when the war ends. He figures that the amount of rebuilding in war-torn Europe will be stupendous and will keep at home all available labor. That would mean a continuation of our labor famine in the United States, and consequently a high price for work. The Napoleonic wars cost Europe 5,000,000 men. It is estimated that if this war continues two years more it will cost the world 15,000,000 men—not all killed in battle, but from a decrease in births and all causes combined.

* * *

A strong desire for a national publicity campaign in the interests of tin roofing was in evidence at the sixth annual meeting of the Metal Branch of the National Hardware Association held in Pittsburgh, Pa. The attitude of the jobbers as expressed is more than one of waiting on the manufacturer. The Philadelphia jobbers have led off in their campaign, and regardless of the attitude of the manufacturers they are to continue it.

* * *

The annual meeting of the National Association of Stove Manufacturers was held in Chicago. The incoming officers as elected are as follows: President, Frederick Will, Sill Stove Works, Rochester, N. Y.; first vice-president, Lee W. Van Cleave, Buck's Stove and Range Co., St. Louis, Mo.; second vice-president, Robert Leach, Weir Stove Co., Taunton, Mass.; treasurer, Charles F. Mertz, Co-operative Foundry Co., Rochester, N. Y.; secretary and cost expert, F. J. Stephenson, Hoosick Falls, N. Y. The Executive Committee consists of the following, together with President Will and Secretary Stephenson: Charles A. DuCharme, chairman, Detroit, Mich.; Joseph W. Emery, Quincy, Ill.; Richard E. Warner, Taunton, Mass.; Russell E. Sard, Albany, N. Y.; George D. Wilkinson, Chicago, Ill.; Frank S. Ouerbacker, Louisville, Ky.; James A. Lansing, Scranton, Pa. New York City was chosen as the convention city for 1918.

* * *

So many automobiles are shipped to Philadelphia dealers that the railroad companies

have been compelled to make special provisions for unloading them. The Pennsylvania Railroad Company, for example, has under construction at Thirty-first and Chestnut streets, an auto platform twenty feet wide and approximately 400 feet long. This platform will be provided with an incline at both ends.

* * *

The annual percapita fire waste in the United States is \$2.51, in Europe 33 cents. Cause: The latter has better construction, less carelessness, increased responsibility.

* * *

An office has been opened in Detroit by the J. M. & L. A. Osborn Co., Cleveland, Ohio, on the fourth floor of the Builders' and Traders' Exchange. It is in charge of J. G. Henninger.

* * *

According to an estimate prepared by the Council of National Defense the total amount of lumber that will be required for war purposes will reach astounding figures. The construction of the army cantonments will require approximately 500,000,000 feet; the wooden ship building program will take 400,000,000 feet; the navy training camps, 200,000,000 feet, and aviation school buildings, 120,000,000 feet. The construction of military wagons, gunstocks and various other war munitions will also require a large amount of lumber. While these figures are imposing the Federal requisition is practically only about five per cent. of the production of a single year, so there is no need of fear that private interests that depend largely upon lumber will be unable to obtain adequate supplies.

* * *

A small roof section covered with shingles painted with a zinc borate paint has recently been tested as to its fire-resistant properties at the Forest Products Laboratory, Madison, Wis., after having been exposed to the weather on the roof of the laboratory for nearly three years. Other shingles freshly painted with the same paint were tested in comparison. The results show that the paint had resisted the action of the weather without losing its fire-retarding properties to any marked extent. A close examination of the exposed portion of the shingles showed that the paint was in first class condition. It was concluded, therefore, that a zinc borate paint has excellent lasting qualities, and that it retains its fire-retardant properties for at least three years.

* * *

By a mail canvass of 10,000 architects and engineers, "Structural Conservation" secured more than 2,600 replies to queries relative to integral waterproofing. More than 94 per cent. favored integral waterproofing of concrete under hydrostatic pressure, and 92 per cent. stated that their observation had shown that integral waterproofing is beneficial in filling the pores of concrete and preventing the absorption of moisture, whereas concrete not waterproofed is absorptive of moisture.

CONCRETE FLOORS WITHOUT FORMS.

No Expensive Centering and No Waste of Concrete.

Any building material that will help to reduce the cost of construction is of especial interest to the modern architect and builder.

The use of ribbed expanded metal lath such as "Chanelath" is a comparatively new thing in the building field. The increasing popularity of this type of material is directly due to the saving in wooden forms made possible by its use.

"Chanelath" is a type of expanded metal lath consisting of T-shaped ribs, $\frac{7}{8}$ of an inch high, spaced 4 inches apart and joined by a fabric of expanded metal having meshes of the same size and shape as "Kno-Burn" metal lath.

One of the purposes for which "Chanelath" was designed, is to provide a material for reinforcing concrete roof and floor slabs and at the same time provide a form for supporting the wet concrete until it has set.

The T-rib of "Chanelath" provides, in the most economical shape, the necessary reinforcement, and the expanded metal fabric furnishes the support or form for the concrete.

The meshes of the fabric are approximately diamond shaped, with a width of $\frac{3}{4}$ of an inch and length of 11-16 of an inch.

At first glance it would appear that a large part of the wet concrete would flow through the mesh and be wasted, but this is not the case.

A carefully supervised test to determine the exact amount of seepage through the mesh of "Chanelath" was conducted by the city of Philadelphia in 1916. The mix was what is technically known as "quakey," water rising easily to the surface when it was struck or patted with a shovel. It was deposited on the "Chanelath" with a No. 2 shovel, and tamped after placing with an iron tamper in the hands of an ordinary laborer.

In mixing the concrete, accurate count was kept of all the cement, sand, aggregate and water going onto the mixing board, all measurements being made with an ordinary galvanized bucket. The material left on the board and not required for the slab was carefully measured, and the different constituents pro rated according to their relative proportion in the mix. In this manner an accurate count was kept of all materials going onto the "Chanelath." The concrete that had dripped through the mesh into the pan was then carefully measured and placed in glass jars. These jars were then turned over to the Henry S. Spackman Engineering Company for analysis.

All computations on this test were made by Mr. Otto H. Gentner, Jr., consulting engineer, of Philadelphia, Pa.

The George A. Fuller Company, in response to a request of the United States Government, submitted a statement showing that the total amount of work done by the company since January 1, 1915, aggregated \$71,000,000.

(Continued on Page 408.)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Oil Plant, Petty's Island, Philadelphia. Architect, private plans. Owners, Crew-Levick Co., Land Title Building, Philadelphia. Reinforced concrete and brick, cooper shop, barrel warehouse, tank storage and paint shop, pump house, compound tank house, domestic flier and compounding house, domestic warehouse, laboratory and sample file room, grease department and specialties department, 2 stories, 72x618 feet; dry house and wash house, 1 story, 70x120 feet, and power house, 1 story, 48x30 feet, composition or mastic roof (power plant equipment and heating reserved), electric lighting, rolled steel sash, fire doors, concrete floors, hollow tile, roof ventilators, barrel conveyors, carriers, drops and elevators. Plans about completed. Owners will build. Ready for bids on materials.

Stores and Apartments (alt. and add.), Broad and Allegheny avenue. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Crumble Bros., on premises. Brick and terra cotta, 3 stories, 65 x160 feet, slag roof, steam heating, electric lighting, tile and marble work, pine floors, metal lath. Plans in progress. Architect ready for sub-bids in three weeks.

Dock, Pottys Island, Philadelphia. Architect, private plans. Owners, Crew-Levick Co., Land Title Building, Philadelphia. Steel or concrete or wood pilings; deck, 40x1200 feet. Owners ready for bids.

Motion Picture Theatre (alt.), Front and Girard avenue, Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Jumbo Amusement Co., Front and Girard avenue, Philadelphia. Brick, 1 story, consists of tearing out and altering front and interior. Plans about completed. Architects will take bids in a few days.

Stores (2) and Manufacturing Building, Allegheny and Kensington avenue. Architect, private plans. Owner, Max Serfert, on premises. Brick, 2 stories, 34x55 feet, slag roof, pine floors, electric lighting (steam heating reserved), rolled steel sash, pine floors, metal ceilings. Owners taking bids. Harry Brocklehurst, 512 W. Norris street, is figuring (only bidder).

Apartment House, Broad and Master sts., Philadelphia, \$700,000. Architect, Frederick Webber, Morris Building, Philadelphia. Owners, Pine Street Realty Co., care of architect. Stone, brick, steel and terra cotta, 13 stories, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, hollow metal sash, cement, brickwood and pine floors, hollow tile, metal lath, elevators, waterproofing. Revised plans completed.

Residence, Oak Lane, Philadelphia, \$15,000. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owner, name withheld. Stone, hollow tile and plaster, 2½ stories, 35 x55 feet and 15x20 feet, slate roof, pine and composition floors (plumbing, hot water heating and electric work reserved). Plans in progress.

Convent (add.), Lehigh avenue and Cedar street, Philadelphia. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Ann's R. C. Church, care of Rev. M. A. Hand, on premises. Brick and plaster, 1 story and basement, 17x38 feet, slag roof, pine floors, steam heating, electric lighting. Architect taking bids, due June 26th. D. W. O'Dea, 5227 North Fifth street; John McShain, 1610 North street; Edmund Molloy, 2316 East Lehigh avenue, are figuring.

Dwellings (2) (alts. into Stores and Apartments) and Garages (2), 6025-29 Germantown avenue. Architect, W. F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Store and apartments, brick, 3 stories; garages, stone, 2 and 1 story, 150x90 feet, slag roof (steam heating and electric fixtures reserved), hardwood, composition and cement floors, electric lighting, tile work, hollow metal skylights, gasoline storage system. Architect has received revised bids.

Store and Office Building (alt.), 1214 Walnut street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Wm. L. Ludascher, Westmoreland st. and Delaware avenue. Brick and stucco, 3½ stories, steam or hot water heating, tile and marble work, electric lighting, pine floors, metal lath, ornamental iron work. Architect taking bids, due June 21st. Specht & Sperry, Heed Building; Freund Const. Co., Bulletin Building; Stacy Reeves & Sons, 2011 Market street; Hogg Const. Co., 1634 Sansom street, and Thos. J. Carberry, 6114 Stenton avenue, are figuring.

Garage, northwest corner Seventh and Spring Garden streets, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Very Best Garage Co., care of M. Berger & Co., northeast corner Seventh and Green streets, Philadelphia. Reinforced concrete and brick, 4 stories, 76x88 x115 feet, slag roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and parquetry floors, metal lath (2) elevators, waterproofing. Owners taking bids, due June 21st. Thos. Reilly, 1616 Thompson street, is figuring.

Club House (alt. and add.), Ranstead to Ludlow, between Nineteenth and Twentieth streets, Philadelphia. Engineer, F. H. Shelton, 1714 Delancey street, Philadelphia. Owners, Plays & Players Club, 43 South Eighteenth street, Frederick H. Shelton, chairman building committee; H. B. Schaeffer, Jr., secretary, 43 South Eighteenth street, Philadelphia. Brick, steel and plaster, 1 story, and balcony, 96x104 feet, slag roof, maple floors, marble and tile work, metal lath, fire escapes (plumbing, heating and lighting reserved). Owners taking bids. H. E. Grau Co., 1707 Sansom street, are figuring.

Warehouse, 1017 Callowhill street, Philadelphia. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owners, R. A. Humphry's Sons, 1021 Callowhill street. Brick,

steel and concrete, 1 story, 20x120 feet, slag roof, cement floor, electric lighting, steam heating. Architect has received bids.

Garage (alts. and add.), 116 Queen street, Philadelphia. Architect, D. A. Supovitz, 1118 Chestnut street, Philadelphia. Owner, A. Milles, on premises. Brick, 1 story, 36x99 feet, consists of general alterations, new brick walls, slag roof, cement floors, electric lighting, gasoline storage system. Architect will take bids in about one week.

Theatre, Studio, Stores and Office Building, Broad below Locust street. Architects, not announced. Owners, David Berg, Samuel Tauber and Philip Publiker, care of Bernheimer & Sundheim, 1001 Chestnut street, Philadelphia. Theatre, 80x10 feet; lobby, 20x60 feet; office building, 10 stories, 90x60 feet, reinforced concrete, brick, steel and terra cotta. Plans in progress. Owners will take bids in a few days.

Apartment (alt. and add.), 1626 N. Broad street, Philadelphia. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, Wm. C. Benkert, Morris Building, Philadelphia. Brick, 3½ stories; fire tower addition (heating reserved), tin roof, electric lighting, tile work, pine floors, ornamental iron work. Architect has received bids.

Warehouse, 1335 Colona street, Philadelphia, \$5,000. Architect, private plans. Owners, Enterprise Mill and Soap Works, 2229-33 North Twelfth street. Brick and steel, 2 stories, 16x75 feet, slag roof, maple floors. Thomas Reilly, 1616 Thompson street, is taking sub-bids.

Garage, Ridge avenue and Lemon street, Philadelphia. Architect, private plans. Owners, Brilliant Mfg. Co., care of Chas. P. Ray, 1035 Ridge avenue. Brick and steel, 1 story and basement, 168x38 feet, slag roof, steam heating, cement floors, rolled steel sash and skylights, fire doors, metal lath, roof ventilators (electric work and gasoline storage system reserved). Owners have received bids.

Foundry Building, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Hollow tile, steel, 1 story, 456x180 feet and 64x180 feet, asbestos roof (heating, plumbing and lighting separate bids), concrete floors, rolled steel sash, fire doors, metal lath, metal window guards, ornamental iron work. Low bidders: Building, 1 story, 456x180 feet, Warren-Moore Co., \$387,103.27; McCloskey & Bahl, \$304,246.07; building, 1 story, 64x180 feet, McCloskey & Bahl, \$555,152.71; Warren-Moore Co., \$538,196.60.

Storage Building, American and Huntingdon streets, Philadelphia. Architect, private plans. Owners, Trussed Concrete Steel Co., Commonwealth Building, Philadelphia. Brick, 1 story, 50x90 feet, slag roof, cement floors, electric lighting, rolled steel sash, fire doors. Owners will build. Ready for sub-bids.

"TRIDENTS" FOR
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GASOLINE, BRINE,
ETC., ETC.

"TRIDENT" METERS

MORE TRIDENTS
IN PHILA. THAN
ANY OTHER
MAKE

PHILADELPHIA METER CO., 942 Real Estate Trust Building.

BOTH PHONES

Residence (alt.), 1912 Spruce street, Philadelphia. Architect, Spencer Roberts, 1524 Chestnut street, Philadelphia. Owner, C. Russell Hichman, Stephen Girard Building, Philadelphia. Brick, new bay window, 3 stories, tin roof, oak floors, tile work, metal lath (heating and lighting reserved). Architect taking bids, due June 22d. Frank G. Stewart, 1619 Sansom street; Thos. C. Trafford, 1613 Sansom street; F. B. Davis, 240 North Sixteenth st.; Wm. J. Grubler Co., 219 E. High street; J. Sims Wilson Co., 1125 Brown street, are figuring.

Residences (50), Twentieth and Church Lane, Philadelphia. Architect, private plans. Owner, Ira K. Davis, Twentieth and Cambria streets, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, steam heating, combination lighting, pine floors. Owner ready for sub-bids in two weeks.

Wall and Gates, Seventeenth and Cherry streets, Philadelphia. Architect, Walter D. Smedley, Stephen Girard Building, Philadelphia. Owners, Friends' Burial Ground, Seventeenth and Cherry streets, Philadelphia. Brick and stone, 42 feet long, ornamental iron work. Architect taking bids, due June 25th. F. L. Hoover & Son, 1023 Cherry street; H. H. Burrell, 206 South Quince street, and R. C. Ballinger & Co., 218 North Thirteenth street, are figuring.

Residence (int. alt.), 2006 Walnut street, \$2,500. Architect not selected. Owner, Dr. Paul J. Sartain, 212 West Logan Square. Brick and stone, 4 stories, consists of interior alterations, fitting up offices, etc. Work contemplated.

Garage, 650 West Johnson street, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Purdy Rittenhouse, Johnson street, west of Wissahickon avenue. Brick, 1 story, 10x20 feet, slag roof, electric lighting, cement floors. Plans about completed. Owner will build.

Residence (alt. and add.), 1421 North Fifteenth street, Philadelphia, \$3,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Dr. Ludwig Loeb, on premises. Brick, 3 stories, 1 story addition, vapor heating, electric lighting, maple floors, plastering, painting. Architect taking bids, due June 22nd. Smith-Hardican Co., 1606 Cherry street; Freund Const. Co., Bulletin Building; D. Henwood, 1509 Wood street; M. Roy Sheen, 1220 Butler street, are figuring.

Advance Base Storehouse, Marine Barracks, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, steel and reinforced concrete, 1 story, 130x60 feet, and 2 wings, 50x120 feet, slag roof, concrete floors, electric lighting, fire and hollow metal doors, rolled steel sash, hollow metal skylights, waterproofing, wire work (heating separate bids). Owners taking bids, due June 25th. Metzger & Fisher, Otis Building; Turner Concrete Steel Co., 1713 Sansom street; McCloskey & Bahls, 1620 Thompson street, are figuring.

Elevated Stations (5), Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, William S. Twining, Director, Room 754 Bourse Building, Philadelphia. Contract No. 616, Allegheny avenue station, 42x42 feet; contract No. 617, Tioga street station, 57x20 feet; contract No. 618, Torresdale avenue station, 49x

22 feet; contract No. 619, Ruan-Church street station, 50x25 feet; contract No. 620, Orthodox street station, 53x21 feet. Brick, stone, steel, concrete and terra cotta, 3 stories and basement, slag roofs, cement floors, hollow tile, tile, marble and terrazzo work, rolled steel sash and skylights, fire doors, ornamental iron work, metal lath, safety treads, roof ventilators, metal ceilings (plumbing, electric work and elevators separate bids, Contracts Nos. 622 and 623). Owners ready for bids,

due July 10th at noon. Inquire at Room 748, Bourse Building.

Church, Eighty-sixth and Bartram avenue, Philadelphia. Architect, P. H. Wood, Glenside, Pa. Owners, Elmwood A. M. E. Church, care of Board of Trustees, on premises. Brick and steel, 1 story and basement, 36x52 feet, slate roof, steam heat, electric light, maple floors. Architect taking bids, due June 23rd. Albert Zellfelder, 151 South Broad street, and William J. Robinson, 1508 Lombard street, are figuring.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Power Houses (2), Navy Yard, Philadelphia, \$253,864; Navy Yard, Norfolk, Va., \$257,624. Architect, private plans. Owners, U. S. Govt., Bureau of Wharves and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and steel, 1 story and mezzanine, 265x97 feet, slag roof (heating, lighting, plumbing, ventilators separate bids), concrete and composition floors, hollow tile, metal lath, elevator, rolled steel sash, fire doors, ornamental iron work, metal window guards, wire work. Contract awarded to M. J. Roche Const. Co., 301 Johnson Building, Cincinnati, Ohio.

Garage, 3032 to 2036 North Sixteenth street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Mrs. P. A. Muller, 2014 North Sixteenth street, and W. S. Rickard, Seventeenth and Fountain sts., Philadelphia. Brick (slow burning), 3 stories,

60x90 feet and 40x80 feet, slag roof, steam heating, electric lighting, cement and pine floors, elevator, gasoline storage system. Contract awarded to A. C. Muller, 2014 North Sixteenth street.

Residence (alt. and add.), 6015 Wayne avenue, \$8,000. Architect, Jos. M. Huston, Wissahickon avenue and Lehman street, Germantown. Owner, Jennie A. Myers, on premises. Stone, 1 story, addition 15x17 feet, slate roof, parquet floors, electric lighting, tile work, metal lath. Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Garage (alt.), 512 Church lane, Germantown, \$1,000. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, John M. Whitall, on premises. Consists of general alterations, mill work, cement floors, electric lighting. Contract awarded to Wm.

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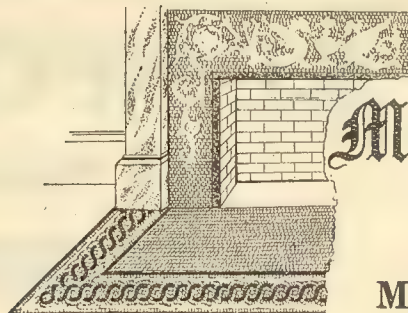


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Garage, 314-16-18 South Fourth street, Philadelphia, \$20,000. Architect, private plans. Owners, Bankers & Merchants, Inc., care of builder. Brick and frame, 1 story, 66 x 132 feet, slag roof, steam heating, electric lighting, cement floors, hollow metal skylights, roof ventilators (gasoline storage system reserved). Contract awarded to H. P. Schneider, 3713 Old York road, Philadelphia.

Building (alts.), 5146 Market street, Philadelphia, \$3,500. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owners, Brooks Bros., 5138 Market street, Philadelphia. Brick, 3 stories, alterations to interior, new front, metal bulks, marble and tile work. Contract awarded to Basch & Co., 1426 South Front street, Philadelphia.

Storage Building (alt. and add.), Thirty-third and Master streets, Philadelphia, \$3,000. Architect, private plans. Owners, Pabst Brewing Co., 1406 Washington avenue, Philadelphia. Frame, 1 story, 90x19 feet, slag roof, cement floors. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Office Building (alt.), Lancaster avenue and Media street, \$10,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Brick and stone, 2 stories (plumbing reserved), steam heating, electric lighting, tile, marble and terrazzo work, hollow metal sash, fire doors, iron stairs, cement and maple floors, hollow tile, metal lath, waterproofing, wire work. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Foundry Building, Navy Yard, Philadelphia, \$532,968. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Hollow tile and steel, 1 story, 648x180 feet, asbestos roof (heating, lighting and plumbing separate bids), concrete floors, rolled steel sash, fire doors, metal lath, ornamental iron work. Contract awarded to Warren-Moore & Co., Commercial Trust Building, Philadelphia.

Library (Logan Branch), Old York road and Wagner avenue, Philadelphia, \$65,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Carnegie Branch, Free Library of Philadelphia, care of John Ashhurst, Librarian, Thirteenth and Locust streets, Philadelphia. Stone, brick and terra cotta, 1 story and basement, 102x85 feet, slag roof, cement floors, hollow tile, metal lath,

tile and marble work, hollow metal skylights, ornamental iron work. Contract awarded to Wark-Yardley Co., 1737 Filbert street, Philadelphia.

Drip Shed, Girard Point, Philadelphia, \$50,000. Architect, Wm. H. Cookman, Broad St. Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Concrete, steel and corrugated iron, 1 story, 121x180 feet, tile and slag roof, cement floors, rolled steel sash and skylights, roof ventilators. Contract awarded to Brann & Stuart, Commercial Trust Building, Philadelphia.

Pier No. 1 (rebuilding), Girard Point, Philadelphia, \$30,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Concrete work, piling and timber, 50x210 feet. Contract awarded to Brann & Stuart, Commercial Trust Building, Philadelphia.

Buildings (alts.), Girard College, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, Corinthian and Girard avenues, Philadelphia. Brick and steel, interior alterations, electric lighting, tile work, metal lath, waterproofing, ornamental iron work, grading, fences and roadways. Contracts for buildings Nos. 5 and 7 awarded to F. A. Havens & Co., 845 North Nineteenth street; Nos. 8 awarded to J. Meyers & Sons Co., Witherspoon Building; Nos. 8 and 9 awarded to H. E. Baton, Twelfth and Sansom streets, Philadelphia.

Sub-Station "A" (alt. and add.), Schuylkill avenue and Christian street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Reinforced concrete, brick and steel, 1 story, 64x54 feet, slag roof (heating and lighting reserved), plank floors, tile work, rolled steel sash, waterproofing, wire work. Contract awarded to John R. Wiggins & Co., Otis Building, Philadelphia.

Factory and Boiler House, 1332 Washington avenue, Philadelphia, \$75,000. Architect, John I. Bright, Otis Building, Philadelphia. Owners, Penn Chemical Works, on premises. Reinforced concrete and brick, 3 and 1 stories, 100 x 50 feet and 50x25 feet, slag roof (heating and electric work reserved), cement and wood block floors, hollow tile, rolled steel sash, hollow metal skylights, fire doors, waterproofing. Contract awarded to Nickson-Duggan Const. Co., 1218 Chestnut street, Philadelphia.

Garage, Queen Lane and Laurens street,

Philadelphia, \$2,500. Architect, private plans. Owner, I. D. Muller, 167 Queen Lane. Brick, 1 story, 22x50 feet, slag roof, steam heating, electric lighting, cement floors, metal lath, roof ventilators. Contract awarded to Henry P. Schneider, 3713 Old York Road.

Studio (alt. and add.), 1518-20 Waverly st., Philadelphia. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Dr. M. W. Zimmerman, 1522 Locust street, Philadelphia. Brick and stucco, 3 stories, addition, 21x21 feet, tin roof, cement and pine floors (heating and lighting reserved), tile work, hollow metal sash and skylights, metal lath. Contract awarded to T. C. Trafford, 1613 Sansom street, Philadelphia.

Factory, 114 North Front street, Philadelphia. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owners, George D. Wetherill & Co., Inc., 114 North Front street, Philadelphia. Brick (slow burning), 4 stories, 100x50 feet, slag roof, steam heating, electric lighting, hollow metal sash and skylights, fire doors, metal lath, elevators, roof ventilators, maple floors. Contract awarded to H. H. Wehmeyer, 1004 West Lehigh avenue, Philadelphia.

Cross, Woodland Cemetery, Philadelphia, \$2,500. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Mrs. Heran Hessenbruch, Overbrook, Pa. Stone, 10 feet high. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

heating, electric lighting, yellow pine floors. Plans completed. Owner will build.

Bungalow, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, M. K. Hoffman, South Bethlehem, Pa. Stucco, 1½ stories, 24x36 feet, slate roof, yellow pine floors. Plans completed. Owner will build.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, Chas. H. Groman, South Bethlehem, Pa. Stone, 2½ stories, 35x42 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors, hollow tile. Plans completed. Owner will build.

Store Building (alt. and add.), 640 Penn st., Reading, Pa., \$5,000. Architect, C. J. Young, Reading, Pa. Owner, B. D. Gates, Inc., 640 Penn street, Reading, Pa. Brick, 1 story, 125 x25 feet, slag roof, concrete floors (steam heating and electric lighting reserved), hollow metal skylights, elevators, roof ventilators. Architect taking bids, due June 25th. W. A. Sharp, Beard Const. Co., Daniel H. Hunter, A. Grove, Adam P. Spotts, Chas. Schlegel, all of Reading, Pa., are figuring.

Garage and Bungalow, Schumakersville, Pa. Architect, Wayne M. High, Reading, Pa. Owner, Mr. Wolf, Schumakersville, Pa. Plans in progress. Too early for details.

Houses (115), Lebanon, Pa. Architects, Stetler & Mengel, Reading, Pa. Owners, Lebanon Chamber of Commerce, Lebanon, Pa. Brick and frame, 1½ stories, 14x42 feet, composition roof, hot air heating, electric lighting, yellow pine and maple floors. Plans completed. Architects taking sub-bids.

Double Bungalow, Schumakersville, Pa. Architect, Wayne M. High, Reading, Pa. Owner, A. A. Bayer, Schumakersville, Pa. Hollow tile and stucco, 1½ stories, shingle or slate roof, pine floors, electric lighting. Plans in progress.

Factory, Fleetwood, Pa. Architect, Wayne M. High, Reading, Pa. Owners, Fleetwood Metal Body Co., Fleetwood, Pa. Brick, 3 stories, 286x104 feet, composition or slag roof, wood floors, electric lighting, fire doors, elevators, waterproofing. Plans in progress.

Store Front, Pottsville, Pa. Architect, H. J. Maumer, Reading, Pa. Owners, Heinz Store, Pottsville, Pa. One story, 20 feet front, tile work, metal bulks, hardwood floors. Architect ready for bids.

Office, Lebanon, Pa. Architect, A. A. Ritcher, Reading, Pa. Owners, Luria Bros. & Co., Lebanon, Pa. Hollow tile and stucco, 1 story, 20x40 feet, asbestos shingle roof, vapor heating, electric lighting, composition floors. Plans in progress.

School, Boyertown, Pa., \$75,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board of Boyertown, Boyertown, Pa. Plans in progress. Too early for details.

Church, Butler, Pa. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, Congregation of St. Paul's Reformed Church, Butler, Pa. Stone, 1 story and basement and balcony, 65x115 feet, slate roof, steam vapor heating, electric lighting, maple floors. Owners, care of Rev. Frederick K. Stamm, 518 Brown avenue, Butler, Pa., taking bids, due June 27th at 6 P. M. George Schenck & Co., Hobaugh & Wimer, and L. M. White, all of Butler, Pa., are figuring.

School (add.), Elm and Madison streets, Reading, Pa. Architect, Ed. Z. Scholl, Reading, Pa. Owners, School Board of Reading, Edgar Richardson, secretary of School Board, Administration Building, Reading, Pa. Brick, 2 stories and basement, 33x62 feet, slate roof, hot air or steam heating, electric lighting, maple floors. Owner ready for bids.

Residence (add.), Second and Pine streets, Reading, Pa. Architect, C. J. Young, Reading, Pa. Owners, Reading Abattoir Co., Inc., Reading, Pa. Concrete, 1 story and basement, 60x80 feet, Barrett roof, concrete floors, heat-

PENNSYLVANIA Construction News

School, Ashland Heights, Montgomery County, Pa., \$70,000. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, superintendent of schools, Ardmore, Pa. Brick and hollow tile, 1 story, 180x190 feet, prepared felt roof, maple floors, hollow metal skylights, metal lath, roof ventilators, waterproofing (plumbing, heating, electric work and ventilating separate bids). Plans in progress. Architects ready for bids on June 26th.

Double Bungalow, South Bethlehem, Pa. Architect, Ed. Pickin, Hunsicker Building, Allentown, Pa. Owner, Rozi Gosztonye, Bethlehem, Pa. Brick and stucco, 2 stories, 36x72 feet, slate roof, steam heating, electric lighting, pine floors. Plans in progress.

Residence, Hokendauqua, Pa., \$8,000. Architect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owners, Thomas Iron Co., Hokendauqua, Pa. Consists of general interior and exterior alterations, 2½ stories, steam heating or hot water heating, tile work hardwood floors. Plans in progress.

Garage, Easton, Pa. Architect, A. D. Chidsey, Drake Building, Easton, Pa. Owner, John Newmeyer, Easton, Pa. Brick (slow burning), 1 story, 150x70 feet, slag roof, steam heating, electric lighting, concrete floors, gasoline storage system. Plans in progress.

Hotel, Northampton Heights, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, Jas. F. Miller, South Bethlehem, Pa. Brick, 3 stories and basement, 43x85 feet, slag and Spanish tile roof, steam or hot water heating, electric lighting, tile and marble work, yellow pine floors, fire escapes. Plans in progress.

Double Residence (alt. and add.), Northampton Heights, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Jessa Silaga, 1818 N. Third street, Northampton Heights, Pa. Brick, 2 stories, 34x33 feet, slate roof, pine floors, electric lighting. Plans completed. Owner ready for bids.

Double Bungalow, Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, L. O. Gramley, Bethlehem, Pa. Brick, 2 stories, 32x50 feet, slate roof, pine floors, electric lighting. Plans completed. Owner will build.

Double Residence, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Isaac Wilenking, South Bethlehem, Pa. Frame and stucco, 2½ stories, 34x40 feet, slate roof, hot air heating, electric lighting, yellow pine floors. Owner is sub-letting.

Mine Storage Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, hollow tile, steel and plaster, 1 story,

48x160 feet, slag roof, concrete floors, rolled steel sash, roof ventilators, waterproofing and dampproofing (electric work separate bids). Low bidders, Wm. Linker & Sons, \$54,100, time, 150 days; J. H. Miller, Baltimore, Md., \$54,000, time, 190 days.

Garage and Stores, Seventh and Market sts., Chester, Pa., \$3,500. Architect, H. Jackson, Chester, Pa. Owner, Wm. E. Headley, Chester, Pa. Brick, 1 story, slag or asbestos roof, hot water heating, electric lighting, pine floors, gasoline storage system. Architect taking bids, due as soon as possible. Golden & Greenstein, Chester, Pa., are figuring.

Residences (4), Parkside, Chester, Pa., \$4,000. Architect, Maurice Golden, Chester, Pa. Owners, Sproul & Kowry, Chester, Pa. Frame and stucco, 2½ stories, 20x25 feet, composition and shingle roof, hot water heating, electric lighting, hardwood floors. Plans completed. Owners will take sub-bids.

Club House (alt. and add.), Paoli, Pa. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owners, Tredyferriin Club, Paoli, Pa. Stone, 1 and 2 stories, 12x16 feet and 32x10 feet, shingle roof, brick and cement floors (heating, plumbing and lighting reserved). Architects have received bids.

Store and Dwelling, Highland avenue, Chester, Pa. Architect, private plans. Owner, Francis Moore, Chester, Pa. Brick, 2 stories, slag roof, hot water heating, electric lighting, pine floors. Owner is sub-letting.

High School (add.), Abington, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School Board of Abington Township, W. F. Woolley, secretary, School Board, Jenkintown, Pa. Stone, 2 stories and basement, 50x70 feet, slate roof. Preliminary sketches in progress.

Residence (alt. and add.), Worthington Mills, Pa. Architect, E. Allen Wilson, 1218 Chestnut street, Philadelphia. Owner, P. O. Chalfant, Forty-seventh and Paschall avenue, Philadelphia. Stone, brick and frame, 3 stories, 28x16 feet, slate roof (hot water and electric heating reserved by owner), electric lighting, tile and marble work, metal lath, oak floors. Architect taking bids, due June 20th. John K. La Rue, Wrightstown, Pa.; L. D. Stringer, Wycombe, Pa.; Frank Heston, Churchville, Pa.; Harry Girtton, Newtown, Pa.; David McClannen, Newtown, Pa., and Conrad Myers, Buckingham, Pa.; John Bailey, Lewis Treffinger, and David D. Nyce, all of Doylestown, Pa., are figuring.

Double Houses (6), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, M. K. Hoffman, South Bethlehem, Pa. Brick, 2 stories, 30x38 feet, slate roof, hot water

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ing and lighting, extension, waterproofing. Architect taking bids, due June 28th. Daniel H. Hunter, Beard Const. Co., Chas. H. Schlegel, L. H. Focht & Son, Adam P. Spotts, and W. A. Sharp, all of Reading, Pa., are figuring.

Garage, Carpenter and Cherry streets, Reading, Pa. Architect, C. J. Young, Washington street, Reading, Pa. Owners, Penn Trust Co., Reading, Pa. Brick, galvanized iron and steel, 1 story, 60x90 feet, slag roof, hot water heating, electric lighting, fire doors, concrete floors, gasoline storage system. Architect has received bids.

School (alt.), Shamokin, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, St. Edward's R. C. Church, care of Right Rev. M. M. Hassett, Shamokin, Pa. Consists of interior alterations, steel stairs, composition floors (heating, plumbing and electric work reserved). Architect taking bids, due June 22nd. Gordon Nagle, Pottsville, Pa.; Mt. Carmel Lumber Co., Mt. Carmel, Pa.; Shamokin Lumber Co., Shamokin, Pa., and the Davis Lumber Co., Shamokin, Pa., are figuring.

Church, Merchant street, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owners, Congregation of St. Paul's A. M. E. Church, Rev. Stanford, Coatesville, Pa. Brick and terra cotta, 1 story and basement, 35x70 feet, slate roof, steam heating, electric lighting, pine floors. Plans completed. Architect ready for bids.

Store and Apartments (alt. and add.), Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owner, Harry D. Cohen, Coatesville, Pa. Brick, 2 stories, 40x120 feet,

slag roof, steam heating, electric lighting, tile work, yellow pine floors. Plans in progress.

Picture Theatre and Stores, Chestnut street, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owner's name withheld. Brick and terra cotta, 1 story, 60x165 feet, slag roof, steam heating, electric lighting, tile work, metal bulks, yellow pine and concrete floors, metal lath, roof ventilators, metal ceilings. Plans in progress.

Lodge Building, East Chestnut street, Coatesville, Pa., \$40,000. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Loyal Order of Moose, Coatesville, Pa. Brick, 3 stories and basement, 46x143 feet, slag roof (vapor heating reserved), electric lighting, tile work, hollow metal sash and skylights, fire doors, hardwood and pine floors, metal lath, elevators, roof ventilators, waterproofing and dampproofing. Architects ready for bids.

Residence, Chestnut Hill, Pa., \$25,000. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. John F. Keator, 218 West Walnut Lane. Stone and frame, 2½ stories, 40x60 feet and 20x30 feet, shingle roof, hardwood floors, tile work (hot water heating, plumbing and electric work reserved). Plans in progress. Architect will take bids in a month.

School, Barren Hill, Montgomery County, Pa., \$50,000. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Whitmarsh Township, care of H. Oscar Young, secretary of School Board, Plymouth Meeting, Whitmarsh Township, Pa. Stone, 2 stories, 8 rooms and auditorium, slag roof. Plans in progress. Will take bids in 1918.

PENNSYLVANIA

Contracts Awarded

Residence, South Bethlehem, Pa., \$10,000. Architect, David Levy, Buckley Building, Allentown, Pa. Owner, Samuel Weizenberger, South Bethlehem, Pa. Brick or hollow tile and stucco, 2½ stories and basement, 35 x30 feet, wing 14x14 feet, slate roof, hardwood floors (vacuum steam heating, plumbing, electric lighting, tile work reserved), metal lath. Contract awarded to Allentown Const. Co., Allentown, Pa.

Pumping Station, Easton, Pa., \$4,000. Architect, A. J. Chidsey, Jr., Drake Building, Easton, Pa. Owners, Lehigh Water Co., Easton, Pa. Brick, 1 story, 30x20 feet, slag roof, hot water heating, electric lighting, concrete floors. Contract awarded to F. J. Lerch & Co., Easton, Pa.

Cottage, Mt. Pocono, Pa., \$20,000. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Architect, C. A. Matcham, care of architect. Stone, 1½ stories, 80x33

feet, shingle or tile roof (vapor heating and lighting fixtures reserved), electric lighting, hardwood floors. Contract awarded to A. Y. Hoffman, Stroudsburg, Pa.

Apartment House, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, Mrs. Clinton Mosier, Bethlehem, Pa. Brick, 3 stories, 52x34 feet, slag roof, steam heating, electric lighting, tile work, pine floors. Contract awarded to Chas. Schwartz, Bethlehem, Pa.

Garage, Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Harry H. Jones, Bethlehem, Pa. Brick, 2 stories, 30x30 feet, slate roof, concrete and pine floors, electric lighting, hollow tile, metal lath, gasoline storage system. Contract awarded to Geo. Merdinger, South Bethlehem, Pa.

Factory, Bethlehem, Pa., \$85,000. Architect, private plans. Owners, Silvev Co., Bethlehem, Pa. Reinforced concrete, brick and

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steel, 2 stories, 60x300 feet and 1 story, 60x180 feet, Barrett roof, cement floors, hollow tile (heating and lighting reserved), rolled steel sash. Contract awarded to Austin Co., Transportation Building, Philadelphia.

Cottages (25), Coatesville, Pa. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Lukens Steel Co., Coatesville, Pa. Brick, 2 stories, 22x24 feet, slag roof. Contract awarded to T. J. & J. R. Whelan, Mutual Life Building, Philadelphia.

Residence and Stable (alt. and add.), Elkins Park, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, David L. Silverman, 1721 North Fifty-second street, Philadelphia. Stone, frame and plaster, 2½ stories and 2 stories, slate roof, hot water heating, electric lighting, tile work, hardwood and pine floors. Contract awarded to W. John Stevens, Inc., Wyncote, Pa.

Garage, building No. 38, Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Carpenter Steel Co., Reading, Pa. Brick, 1 story, 21x27 feet, composition roof, concrete floors. Contract awarded to H. J. Raudenbush, Reading, Pa.

Farm Barn (alt. and Add.), near Guthriesville, Chester County, Pa. Architect, Harry G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, Charles E. Kremer, 220 Essex Road, Narberth, Pa. Stone and frame, 2 stories addition, 32x47 feet, shingle roof, cement floors. Contract awarded to W. J. Elliott, Coatesville, Pa.

Bridge No. 14 (rebuilding), Greenwood Branch, south of Tamaqua, Pa. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Steel and concrete, waterproofing. Contract awarded to William E. Riebe, Tamaqua, Pa. Waterproofing awarded to H. W. Johns-Manville Co., 210 North Broad street, Philadelphia.

Apartment House, Coatesville, Pa. Architect, private plans. Owner, William S. G. Cook, Coatesville, Pa. Brick, 3 stories, 220x34 feet, slag roof, steam heating, electric lighting, wood floors. Contract awarded to W. R. Beard, 533 Olive street, Philadelphia.

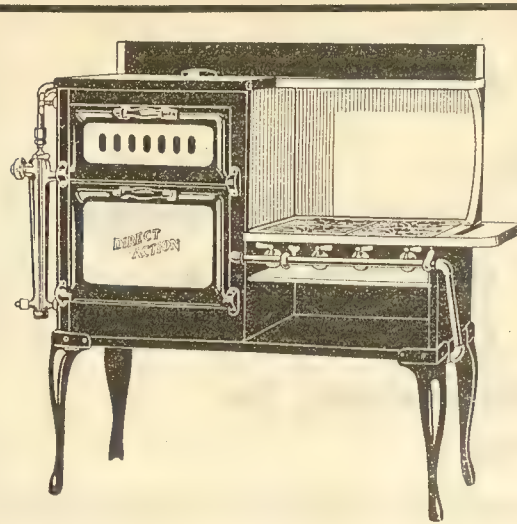
Eagles Home, First avenue, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owners, F. O. E., Coatesville, Pa. Brick and terra cotta, 3 stories, 60x70 feet, concrete roof, steam heating, electric lighting, tile work, pine and maple floors, metal lath, dumb waiters. Contract awarded to Harry Osborne, Coatesville, Pa.

Double Houses (7), Sterling street, between Eleventh and Twelfth streets, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owners, Housing Committee, Coatesville, Pa. Brick and frame and shingles, 2½ stories, 33x45 feet, shingle roof, hot air heating, electric lighting, yellow pine floors. Contract awarded to H. K. Thorne, Coatesville, Pa.

Double Houses (7), West End, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owners, Housing Committee, Coatesville, Pa. Brick, 2½ stories, 33x40 feet, shingle roof, yellow pine floors, hot air heating, electric lighting. Contract awarded to Thos. M. Steen, Mortonville, Pa.

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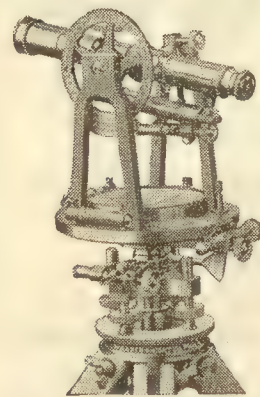
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PHILADELPHIA

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NEW JERSEY Construction News

Mine Storage Buildings (7), Lake Denmark, Dover, N. J. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, hollow tile, steel and plaster, 50x250 feet, asbestos roof, concrete and wood floors, rolled steel sash, roof ventilators, waterproofing and dampproofing (electric work separate bids). Owners taking bids, due June 25th. Wm. Linker, 831 Cherry st., is figuring.

School, Oxford, N. J., \$17,000. Architect, H. J. Wenzelberger, Easton, Pa. Owners, School Board of Oxford, Oxford, N. J. Brick, 2 stories, 40x70 feet, slate roof, steam heating, electric lighting, maple floors. Plans in progress.

School, Phillipsburg, N. J., \$30,000. Architect, H. J. Wenzelberger, Easton, Pa. Owners, School Board of Phillipsburg, Phillipsburg, N. J. Brick, 2 stories, 65x72 feet, slag roof, steam heating, electric lighting, maple floors. Plans in progress.

Bungalow, Brielle, N. J. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owner, name withheld. Frame, 1 story, 30x40 feet, shingle roof, pine floors (plumbing and electric work reserved). Plans in progress.

Masonic Temple, Kings Highway, E., Haddonfield, N. J. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owners, Haddonfield Lodge, No. 130. F. and A. M., Wm. M. Hodgson, chairman building committee, 124 Market street, Philadelphia. Stone, brick and plaster, 2 stories and basement, 80x42 feet, asbestos roof (plumbing, heating and lighting reserved), oak, pine and cement floors, tile work, hollow tile, metal lath, fire escapes,

roof ventilators, waterproofing. Architect has received bids.

Fire House, Vineland, N. J., \$10,000. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, Office of Commissioners, City Hall, Vineland, N. J. Brick, 2 stories, 29x70 feet, Barrett roof, electric lighting, concrete and pine floors (hot water heating reserved). Owners taking new bids, due in a week. The following are figuring: Mutual Eng. Co., Franklin Building, Philadelphia; J. D. Pasquale, Vineland, N. J., and Wm. Isenberg, Woodbine, N. J.

Residence, Woodstown, N. J. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Wm. A. Jaquette, southeast corner Fifteenth and Locust streets, Philadelphia. Frame, 2 and 1 stories, 26x30 feet and 32x16 feet, shingle roof, hot air heating, electric lighting, pine floors. Architects taking bids due June 24th at noon. Frank Scott, Swedesboro, N. J.; Leonard C. Parks, Swedesboro, N. J., and W. A. Lacey, Richwood, N. J., are figuring.

Building No. 17 B. (alts.), Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, The Victor Talking Machine Co., Camden, N. J. Brick, steel and reinforced concrete, 1 story, 154x27 feet, slag roof (heating and lighting reserved), pine and cement floors, hollow metal sash, rolled steel skylights, fire doors and kalamein doors, iron stairs, ornamental iron work, metal lath, safety treads, waterproofing and dampproofing. Architects have received revised bids.

Residence, Washington Crossing, N. J. Architects, W. W. Slack & Son, American Me-

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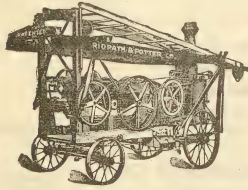
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Philadelphia, Penna.

chanics' Building, Trenton, N. J. Owner, Frank W. Harper, Trenton, N. J. Frame, 2 stories, 22x41 feet, slag roof (heating and lighting not decided), yellow pine floors. Architects taking bids, due June 23rd. Wm. Ivins, 438 Rutherford avenue; I. Harper Clayton, American Mechanics' Building; Joseph Trier, 61 Pennington avenue; Charles Randall, Samuel Hilton, Forst Richey Building, and Fred Parker, 227 Bellview street, all of Trenton, N. J., are figuring.

Women's Reformatory (Disciplinary Wing) (add.), Clinton, N. J. Architect, F. H. Best, State Capitol, Trenton, N. J. Owners, Board of Managers, Women's Reformatory, Clinton, N. J. Hollow tile and stucco, 2½ stories, 26x40 feet, slate roof, wood floors, hollow tile. Owner taking bids, due June 22nd. Ed. B. Bonynge, Washington, N. J., and Wm. Warren, Princeton, N. J., are figuring.

Club House, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Merchantville Country Club. Merchantville, N. J. Hollow tile and plaster, 2 stories and 1 story, 48x48 feet, and 2 wings, shingle roof, steam or hot water heating, electric lighting, tile work, pine and cement floors, dampproofing. Architect taking bids, due June 28th. M. T. James, H. W. Applegate, and George C. Tilton, all of Merchantville, N. J.; E. Frank Turner, 828 Broadway, and George Bachmann, 19 North Thirtieth street, Camden, N. J.; J. S. Rogers Co., and Harvey Vennell, both of Moorestown, N. J.; Fred Lange, Audubon, N. J., and the Penns Const. Co., 9 South Eighteenth street, Philadelphia, are figuring.

Residence and Garage, Bridgeton, N. J. Architects, Custer & Seltzer, 304 Market street, Camden, N. J. Owner, John Stiles, care of architects. Hollow tile, 2 stories, 50x26 feet, shingle roof, vapor vacuum heating, electric lighting, hardwood and pine floors, gasoline storage system. Plans in progress.

Church, Salem, N. J. Architects, Custer & Seltzer, 304 Market street, Camden, N. J. Owners, congregation of Mt. Hope M. E. Church, care of architects. Brick, 1 story

and basement and gallery, 52x50 feet, slate roof, pine floors, vapor vacuum heating, electric lighting. Plans in progress.

School, Hamilton Township, McCreer County, N. J., \$40,000. Architects, W. W. Slack & Son, Trenton, N. J. Owners, School Board of Hamilton Township, Mercer County, N. J. Brick, 2 stories, 8 rooms. Owners will advertise for bids in a few days.

Residence, Ardsley, N. J., \$15,000. Architects, W. W. Slack & Son, Trenton, N. J. Owner, Mrs. Louisa L. Eldridge, Ardsley, N. J. Stucco and hollow tile, 2 stories, 85x35 feet, shingle roof, hot water heating, electric lighting. Plans in progress.

Residence, Riverside Drive, Trenton, N. J. Architect, private plans. Owner, Ed. H. Armstrong, 24 East State street, Trenton, N. J. Brick and hollow tile and stucco, 2½ stories, 14x50 feet, roof not decided, hot water heating and steam heating, hardwood and pine floors, electric lighting. Plans completed.

Houses (2), Rutherford avenue, Trenton, N. J. Architect, private plans. Owner, Frank L. Sweeney, Trenton, N. J. Brick, 2½ stories, slate or shingle roof, hot water heating, electric lighting, hardwood and pine floors. Owner will sub-let all contracts.

Home (alt. and add.), 915 Haddon avenue, Camden, N. J., \$2,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Camden Home for Friendless Children, on premises. Brick, 1 story, 16x50 feet, slag roof, hot air heating. North Carolina pine floors, combination lighting. Architects taking bids, due June 22nd. E. Frank Turner Co., 828 Broadway; Wm. Wifford, 525 Market street; George Bachmann, 19 North Thirtieth street, and Barchlow & Fulton, 506 Cherry street, all of Camden, N. J., are figuring.

Store and Print Shop, Hopewell, N. J. Architect, J. Osborne Hunt, 114 North Montgomery avenue, Trenton, N. J. Owner, E. V. Savidge, Hopewell, N. J. Brick and terra cotta, 2 stories and basement, 50x60 feet, slag roof, steam heating, electric lighting, tile work. Low bidders, Supthin Bros., Hopewell, N. J. Contract not yet awarded.

The Answer

"Yes, Mr. Builder," said the prospective house buyer, "your house looks fairly complete." But what provision have you made for giving me quick heat in the mornings and evenings of the late Spring and early Fall when it isn't practical to have the house heating system going?"

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New Jersey

Contracts Awarded

Ship Building Plant, Gloucester, N. J., \$1,000,000. Architect, private plans. Owners, New Jersey Ship Building Co., Boston, Mass. Brick and steel, concrete foundations, 1 and 2 stories, plate and angle shop, mould loft and machine shop, forge shop, machine and boiler house, joiner shop, office building, time office, toilets and compressor houses, gantries, slag roof, pine and wood block floors, rolled steel sash and skylights, metal lath. Contract awarded to George F. Pawling & Co., 1432 South Penn Square, Philadelphia.

Alms house (alt.), Asyla, Camden County, N. J. Architect, Thomas Stephen, Masonic Temple Building, Camden, N. J. Owners, Camden County Board of Freeholders, E. Frank Pine, chairman Building Committee, County Court House, Camden, N. J. Brick and steel, 3 stories and basement, tin roof, hot water heating, electric lighting, hollow metal skylights, kalamain doors, cement and asphalt floors, metal lath, ornamental iron work. Contract awarded to George Bachmann, 19 South Thirtieth street, Camden, N. J.

Passenger Station, Freight Station and Baggage and Express Building, Princeton, N. J., \$60,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Stone and steel, concrete foundations, passenger station, 1 story and basement, 81x27 feet; baggage and express building, 1 stories, 85x23 feet and 21x7 feet; freight house, 1 story, brick, concrete foundation, 60 x22 feet and 22x32 feet, slag and slate roof, pine, terrazzo, cement and asphalt floors, steam heating, electric lighting, marble work, hollow tile, metal lath, safety treads, damp-proofing, ornamental iron work. Contract awarded to Matthews Const. Co., Princeton, N. J.

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DELAWARE

Construction News

Residence, Seventeenth and Tower road, Wilmington, Del., \$25,000. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owner, name withheld. Brick and stucco, 3 stories, slate roof, vapor heating, gas and electric lighting, hardwood floors, tile and marble work. Plans in progress.

Apartment House, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, S. Baneroft, Jr., Wilmington, Del. Consists of general interior alterations, 3 stories, electric lighting. Architect taking bids. Howard May and W. D. Haddock & Co., both of Wilmington, Del., are figuring.

Garage, Wilmington, Del., \$25,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John J. Monaghan, Fourth and Madison avenue, Wilmington, Del. Brick,

2 stories and basement, 60x80 feet, slag roof, concrete and wood floors (gasoline storage system and electric lighting reserved), rolled steel sash, steam heating, elevators. Architect will take bids in a few days.

Residence, Wilmington, Del. Architects, Hope & Carlson, Ford Building, Wilmington, Del. Owner, E. B. Jones, Kennett Apartments, Wilmington, Del. Brick, hollow tile and plaster, 3 stories, 26x36 feet, slate roof, hot water heating, electric lighting, tile work, oak and pine floors. Architects has received bids.

Residence, Wilmington, Del. Architect, private plans. Owner, Rodman Smith, Wilmington, Del. Brick, 2½ stories, slag roof, hardwood and pine floors, electric lighting. Owner taking bids. W. D. Haddock & Co., Wilmington, Del., are figuring.

DELAWARE

Contracts Awarded

Store Building, Sixth and Market streets, Wilmington, Del. Architects, Brown & Whiteside, Du Pont Building, Wilmington, Del. Owner, John T. Mullin, Wilmington, Del. Brick and hollow tile, 4 stories (heating, lighting and plumbing reserved). Contract awarded to W. D. Haddock & Co., Wilmington, Del.

Factory Building (Blind Asylum), Eighth street, Wilmington, Del. Architects, Brown & Whiteside, Du Pont Building, Wilmington, Del. Owners, Delaware Committee for the Blind, Wilmington, Del. Reinforced concrete and brick, 3 stories, 23x60 feet, composition

roof (plumbing, steam heating and electric lighting reserved), rolled steel sash and skylights, fire doors, iron stairs, concrete floors, elevators. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Residence (alt.), Eleventh and Brown sts., Wilmington, Del., \$5,000. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owner, Chas. A. Patterson, Wilmington, Del. Consists of general interior alterations, tile and marble work. Contract awarded to W. Howard May, Dupont Building, Wilmington, Del.

Miscellaneous Construction News

Freight House and Office Building, Louisiana street, Buffalo, N. Y. Architects, M. of W. Department, room 361, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick, steel and concrete, 2 stories, 420x30 feet, slag roof, pine, composition, maple and cement floors, hollow tile, metal lath, steam heating, electric lighting, marble work, rolled steel sash, rolling steel doors, hollow tile, metal lath, roof ventilators, iron stairs. Owners, care of Jas. G. Rodgers, general superintendent, Buffalo Div., Brisbane Building, Buffalo, N. Y., taking bids, due June 27th. Metzger & Fisher, Otis Building, and Roydhouse-Arey Co., 112 North Broad street, Philadelphia, are figuring.

Residence (alt. and add.), Claymont, Del. Architect, Francis A. Guckert, Wayne, Pa. Owner's name withheld. General interior alterations, 2½ stories, 40x40 feet, oak floors (hot water heating and plumbing reserved), tile work. Plans in progress.

Dormitory Building, Morgantown, W. Va., \$125,000. Architect, Paul A. Davis, 3d, 1713 Walnut street, Philadelphia. Owners, University of W. Va., State Board of Control, James S. Lakin, president of board, Charlestown, W. Va. Brick, stone, steel and terra cotta, 3 stories, 43x220 feet, slate and slag roof, steam heating, electric lighting, cement composition and pine floors, metal lath, fire doors, (2) elevators and (1) dumbwaiter. Contract awarded to R. R. Kitchen & Co., Wheeling, W. Va.

Maryland

Construction News

Stable, Singerly, Md. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, T. W. Bacchus, Singerly, Md. Frame, 1 story and loft, slate roof. Plans in progress.

Stores and Garage, southwest corner of Maryland avenue and Oliver street, Baltimore. Architect, Walter M. Gieske, Gunther Building Baltimore. Owner's name withheld. Reinforced concrete and steel, brick veneer, 130 x150 feet, slag or tile roof, electric lighting, steam heating. Plans in progress.

Dairy Barn, Silo, Etc., Rock Creek, Anne Arundel County, Md. Architects, J. H. & F. J. Thuman, 2508 North Charles street, Baltimore. Owners, John H. & Louis A. Dockman, 32-34 Montgomery street, Baltimore. Concrete, brick and frame, slate roof, electric lighting, plumbing, painting, iron work, sheet metal. Plans about completed. Architects will be ready for bids in a few days.

Factory, Baltimore, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owners, Baltimore Buggy Top Co., 107 West Mt. Royal avenue, Baltimore, Md. Brick, reinforced concrete and steel, 4 stories, 75x120 feet, slag roof, concrete and wood floors, steam heating, electric lighting, electric elevator, ornamental iron work, hollow metal skylights, steel sash, ventilators, plumbing, plastering and painting. Plans in progress.

Morgue, Aliceanna, near President street, Baltimore, Md. Architect, private plans. Owners, City of Baltimore, City Hall, Baltimore, Md. Brick and concrete, 1 story, 41x65 feet, slag roof, steam heating, electric lighting. Plans may be obtained from Building Inspector J. J. Byrne, City Hall, Baltimore, Md. Owners taking bids, due June 27th.

Garage (alt. and add.), 1033 Cathedral st., Baltimore. Architect, Frederick Thomas, Gunther Building, Baltimore. Owners, Auto Sales Co., 1007 North Eutaw street, Baltimore. Brick, concrete and stucco, tin, tile and slag roof, hollow metal skylights, ventilators, waterproofing, tile floor (heating, plumbing and electric wiring reserved by architects), sheet metal work. Architect taking bids, due June 22nd. Consolidated Eng. Co., Calvert Building; G. Walter Tovell, Eutaw and McCulloh streets; Cowan Building Co., 106 West Madison street, and M. C. Davis, 920 West Thirty-sixth street, Baltimore, Md., are figuring.

Apartment (alts.), 1609 Eutaw Place, Baltimore, Md. Architect, George R. Callis, Jr., 218 East Lexington street, Baltimore. Owner, Max Covalerchek, 212 Aisquith street, Baltimore. New tile bath rooms, electric wiring, new partitions, painting, etc. Owner will take bids.

Dormitory (add.), Baneroft Hall, U. S. Naval Academy, Annapolis, Md., \$2,500,000. Architect, J. H. de Sibour, Hibbs Building, Washington, D. C. Owners, U. S. Government Bureau of Yards and Docks, Washington, D. C. Addition to present building, same construction, 5 stories, 395x85 feet (2 wings). Plans may be obtained from E. R. Harris, Chief of Navy Department, Bureau of Yards and Docks, Washington, D. C. Owners taking bids, due July 9th.

Maryland

Contracts Awarded

Office Building, 110-112 East Lexington st., Baltimore. Architect, Otto G. Simonson,

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
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1927 W. Montgomery Avenue, Philadelphia, Pa.

Maryland Casualty Tower, Baltimore, Md. Owner, Harry B. Wolf, 204 Courtland street, Baltimore. Brick and concrete, 2 stories, 50x100 feet, slag roof, hollow metal skylights, marble and terrazzo work, ornamental terra cotta, fire doors, dampproofing, plumbing, plastering and painting, sheet metal work. Contract awarded to Fred Wright, 204 Courtland street, Baltimore, Md.

School No. 47, Linwood avenue, Fleet and Streeper streets, Baltimore, \$17,000. Architect, A. C. Leach, 323 North Charles street, Baltimore, Md. Owners, Board of School Commissioners of Baltimore, City Hall, Baltimore. Brick, concrete and steel, 3 stories, 146x45 feet, slag roof, marble or granite trim, ornamental terra cotta, waterproofing, ventilators, metal lath, tile, marble and slate work (electric wiring, heating, plumbing and vacuum system reserved). Contract awarded to Jas. L. Robinson Const. Co., 218 East Lexington street, Baltimore, Md.

(Continued from Page 399.)

Owing to the general slackening of building operations in this territory the structural steel market is correspondingly less active. The industry is well booked up with orders for future deliveries, but the current business has been slower than it has been for a long time. Railroad buying continues to be one of the features of the market, but this business is limited to supplies immediately necessary for bridge improvements and general repairs. The fabricating mills are from three to eight weeks behind in their deliveries and hesitate to accept new orders because it is not yet fully determined what the Government requirements will be. A number of important producers of steel products have recently announced that they will construct extensive additions to their present plants. In some instances the capacity of existing plants will be almost doubled and in all cases the extensions will be such as will increase manufacturing facilities to a large extent.

* * *

Announcement has been made recently that the millions of feet of lumber required by the Government for the construction of cantonments for troops will be supplied at from \$3 to \$5 a thousand below the prevailing prices. This is the agreement recently arrived at between the lumber interests and the Council

of National Defense. The lumber committee of the Council explained that the basis on which the low prices are secured is one of informal arrangements assuring a maximum price varying according to the cost of production in different sections of the country. The contracts will be issued on a "cost plus" basis. Twelve million feet, board measure, will be required for each standard cantonment unit of twenty-five thousand men. The total which will be needed for all Government undertakings, including the Shipping Board's program, aviation school buildings, navy requirements and other purposes will be approximately 1,500,000,000 board feet.

* * *

The United States Steel Corporation has purchased from the Newark Factory Sites, Inc., through Joseph P. Day, a tract of sixty acres in the Hackensack Meadows on Newark Bay as a site for a ship yard to be used by the American Bridge Company for the construction of steel bottoms. The property has a frontage of about half a mile on the Hackensack River and runs back 1,400 feet to Hackensack avenue, where the frontage is 1,200 feet, adjoining the Newark branch of the Jersey Central Railroad. While the exact plans of the corporation have not yet been announced, it is rumored in the steel trade that the rapid construction of standardized cargo boats ranging from 5,000 to 8,000 tons dead weight, is being contemplated.

* * *

The Chamber of Commerce of the United States has a cheerful message for those who have been worrying about the reported inadequacy of the food supply. Its Committee on Statistics and Standards reports that with favorable weather from now on the total winter wheat yield may somewhat exceed the harvest of last year. At this stage of the growth of the spring wheat crop, all that can be reasonably said is that the law of chance was for a greater production than last season. If, however, we should not have as much wheat to export as would be necessary, there seems a strong probability that we shall have other available food supplies, such as corn, oats and potatoes, not only in full measure, but running over.

Owing to the large number of fatalities attributable to preventable accidents in building and construction work, the New York State Industrial Commission recently undertook the important work of formulating a Safety Building Code. There is need for some further legislation of this character in order to reduce the number of men maimed or killed each year in accidents occurring during the erection of new structures. According to the statistics recently compiled it is shown that many workmen are killed annually in the building and construction business, whose death is directly traceable to carelessness in some form or other, than are fatally injured in factories, although the number of factory operatives greatly outnumber the workmen employed in the construction lines. The accidents in construction work are in no wise due to the fact that there are not a sufficiency of legal safeguards existent, but almost wholly for the reason that the mechanics employed in structural work are notably careless and willing to take more chances than the natural hazards of the work make necessary, and also because the contractor, superintendent or foreman on the job disregards the sections of the Labor Law that provide for the safety of the workmen. The law is mainly ignored in order to save time or economize in the expense involved in providing the required safeguards, or both.

Technical Notes and Practical Recipes

Aluminum Alloy.

A French engineer has patented an alloy of aluminum which is said to admit of being cast, worked, or tempered in the same way as steel. For the preparation of this metal preliminary alloy is prepared containing cobalt, nickel, tungsten, silver, magnesium, and aluminum. About 10 per cent. of this alloy is incorporated with 90 per cent. of aluminum to make the new compound.

* * *

Tempering.

Twist drills, taps, dies, small punches, and other similar articles of cast steel may be effectively tempered by the following process: Equal parts of prussiate of potash and common salt are mixed in a clean iron pot over a fire until the mixture boils and assumes a cherry-red color. The tool is to be inserted into this molten compound until it also has assumed the same color; the tool may be left in as long as desired. When the tool is taken out it has to be cooled in water or linseed oil in a vertical position. For taps or dies it is best to let the tool down to dark straw.

* * *

Strength of Castings.

It is a singular and a very striking circumstance that the strength of cast iron can be increased by the simple operation of knock-

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ing the castings about. Mr. A. E. Outerbridge, Jr., has found that by the repeated action of light blows the tensile strength of the casting can be increased. The explanation, of course, is assumed to be that the repeated shocks relieve the internal strains and permit the full tenacity of the metal to be developed. It has long been known that cast metal bars tested some months after they have been made are appreciably stronger than if tested when newly cast.

THE SELECTION OF MILLWORK.

While "milwork," as the contractors understand it, finds no place in the modern dictionaries, it is still a real and vital subject to be taken up by the builder of the home. The appearance of the millwork, or trim, which also includes the doors and windows, stairs, and the mass of built-in features generally found in the modern home, goes a long ways toward the owner's satisfaction with the job. It is even more important when considered from the standpoint of the contractor who builds a house to sell or rent. Unless the appearance is right, there is trouble for everyone.

Of course, a good job of millwork would not make up for a poor job of painting or plastering, and the finest millwork cannot cover the defects of a poorly designed building. But, other things being equal, the millwork is one of the most important features of the building.

The millwork furnishes practically everything seen in the interior of the house, except the floors, walls and ceilings. In the matter of windows and doors, millwork forms the working or moving parts of the house, and in such places is subject to both wear and careful scrutiny from those who enter the home.

The contractor must therefore view the millwork as the one feature which will make or mar his reputation. Often the contractor who may have slipped up on a number of items all through the job can recover his prestige by a good job of millwork. While not intended to hide real deficiencies, it still has possibilities which every contractor must recognize.

But with all that, millwork requires something from the contractor. In the first place, he must know just what he is going to do all through the job, and must select his millwork with the greatest care, having in view the ultimate purpose of the building. He must consider the cost of finishing the work in the manner best calculated to bring out the best appearance while giving it the required protection from deteriorating influences.

Millwork, being a finishing material, lacks the property of adding strength to the building. All this must be provided for by the framework, and unless the contractor brings the building up to that point in suitable

shape, the best job of millwork will not appear at its best or remain the work of art which it otherwise would be.

So, why not consider the millwork as the crowning achievement of the builder's art? It really is that, for, used as a base, the finest decoration is applied to it. When the design of the millwork is right, the decorator has a wide field to exercise his skill on, using the millwork as part of the scheme, as borders, etc. The millwork must be right in material, design and erection before these results can be achieved.

With all the limitations as regards workmanship, the contractor has practically unlimited facilities to draw upon in the way of materials and design. Several beautiful woods are available in almost limitless quantities, and their general properties are such as to make them ideal for millwork. Manufacturing processes bring out the finest qualities in these woods, both as regards appearance and durability. Taking just one wood, oak, there is a wide difference between the quarter-sawn and the plain, and yet the actual difference in cost is slight, and the durability is sufficient in either case. Again, consider birch, which may be stained to represent almost any high-priced wood, or which furnishes an excellent base for painted or enameled work. Every wood has some advantages, and many have qualities which, but for the abundance of the wood, would make the material exceedingly valuable.

The first care of the contractor should be to select a wood satisfactory from the point of utility. Next should be considered the permanency of the wood under the conditions of its use. Third, the appearance of the wood when finished in any of the many ways known to the painter and decorator. Fourth, the item of cost should not be overlooked, as this often influences the owner more than it should.

The contractor should consider the suitability of the wood for the place where it is to be used, the stock sizes in which the materials are made up, the variety which may be obtained by suitable arrangements of the standard shapes and mouldings. He must know something about manufacturing methods, which are suitable for veneers and which should be used solid, which will stand exposure to the weather, such as for outside doors, sash, and all the like.

Above all, the contractor should have samples of the various woods in general use in his locality, finished in as many styles as possible, so that he can show them to the owners who consult him. As soon as the knowledge gets around that a contractor has these samples he will be consulted by those who want something a little different at no increase of cost.

Keep posted on millwork, for it will be the means of securing many fine contracts. It will preserve the contractor's reputation about as well as any item about the building.

Permits for New Buildings

Garage, 2420 W. Allegheny avenue, \$400. J. Nicholas (O), on premises. Chas. L. Gum (C), 2546 N. Twenty-ninth street. Brick, 1 story, 10x15 feet.

Machine Shop, 3537-39 North Ninth street, \$7,900. J. F. Johnson Co. (O), 2317 North Sixteenth street. John Bukelback (C), 4608 Richmond street. Brick, 2 stories, 29x98 feet, slag roof.

Office, P. & R. railroad and Cambria street, \$650. P. & R. Railroad Co. (O and C), Twelfth and Market streets. Frame, 1 story, 20x30 feet.

Church, Fifty-ninth and Larchwood avenue, \$33,000. Fourth Reformed Presbyterian Church (O). G. B. Bond (C), Thirteenth st. and Sixty-sixth avenue, Oak Lane. Brick, 1 story, 67x69 feet, slag roof, steam heating.

Garage, Sixteenth and Diamond streets, \$3,000. Muller & Richard (O), 2032 North Sixteenth street. A. C. Muller (C), 1819 North Seventeenth street. Interior alterations.

Garage and Stable, 3427-29 Market street, \$510. Supply Ice Cream Co. (O), 3334 Market street. Tom Eusack Co. (C), 213 South Tenth street. New Sign.

Dwellings (2), Seventy-first avenue, west of Broad street, \$5,700. B. Hagan (O), 7106 N. Broad street. Thomas Quinn (C), Ogontz. Stone and brick, 2 stories, 16x44 feet, slag roof.

Factory, Frankford and Torresdale avenues, \$25,000. H. E. Perry (O), 4080 Frankford ave. M. Ward Sasby, Inc. (C), 1420 Chestnut street. Brick, 1 story, 102x82 feet, slag roof.

Garage, Lincoln Drive and Springer street, \$1,000. James W. Mitchell (O and C), Forty-sixth and Market streets. Stone, 1½ stories, 20x118 feet, slate roof.

Dwelling, Sedwick and Crittenden street, \$6,500. A. S. Tourison, Jr. (O and C), 7014 Boyer street. Stone, 3 stories, 31x45 feet, slate roof, hot water heating.

Dwelling, Mt. Pleasant avenue, west of Crittenden street, \$16,500. A. S. Tourison, Jr. (O and C), 7014 Boyer street. Stone, 3 stories, 28x45 feet, slate roof, hot water heating.

Garage, Seventeenth and Norris streets, \$540. W. Berion (O), 2019 North Seventeenth street. J. Solomon (C), 1828 North Franklin street. Brick, 1 story, 20x24 feet, slate roof.

Parrish House, Germantown and Queen Lane avenue, \$10,000. Trinity Lutheran Church (O), on premises. Harry Schwenin (C), 13 Wister street. Amando Alantaro (A), 2962 North Bailey street. Stone, reinforced concrete, brick, lumber and plaster, 46x69 feet.

Dwelling, Forty-sixth and Pine streets, \$7,500. Chas. R. Seigel (O and C), 6201 Carpenter street. Brick, 3 stories, 16x30 feet, slate roof, hot water heating.

Garage, rear 6028 Westminster avenue, \$300. John Butler (O), 6028 Westminster avenue. Paul Otty (Chas. H. Young, attorney for owner) (C), Seventy-second and Haverford avenue. Brick, 1 story, 16x20 feet, slag roof.

Motorecycle, 520 W. Allegheny avenue, \$300. Louis Canavan (O and C), 3200 North Reese street. Angle iron and covered with corrugated iron.

Storage, League Island road, south of P. R. R., \$1,000. The Penna. R. R. Co. (O and C), Broad Street Station. Frame, 1 story, 16x20 feet, slag roof.

Garages (4), Twelfth street, north from Sixty-fifth avenue, \$2,000. Frank J. O'Don-

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nell (O and C), Broad and Cheltenham avenue. Brick, 1 story, 14x20 feet, slate roofs.

Garage, 5012-16 Parkside avenue, \$1,500. Jacob Felden (O and C), 1017 Jackson street. Brick, 1 story, 16x30 feet, slag roof, brick, 1 story, 20x30 feet, slag roof.

Storage, 956 North Front street, \$500. F. B. Pancoast Co. (O), 950 North Front street. Fred A. Havens (C), 845 North Nineteenth street. Two open sheds, R. R. siding, 18x40 feet and 20x67 feet, no sides, slag roof.

Dwelling, 329 Bainbridge street, \$2,000. David Snader (O and C), 329 Bainbridge st. Brick, 2 stories, 19x30 feet, tin roof.

Garages, 5108-22 Hatfield avenue, \$2,000. Wm. D. Laverell (O), 1727 North Twentieth street. J. H. Laverell (C), 4536 Baltimore

avenue. Brick, 1 story, 97x20 feet, slag roof.

Garage, Water and Jackson streets, \$400. Becker, Smith & Page (O), Water and Snyder avenue. John E. Housman (C), Water and Snyder avenue. Brick, 1 story, 18x36 feet, slag roof.

Garages (6), 237 South Forty-ninth street, \$1,800. C. M. Rogers (O and C), on premises. Brick, 1 story, 10x16 feet, slag roof.

Chapel, Tenth and Federal streets, \$1,150. St. George Syrian Greek Orthodox Society (O). Pietro Giordant (C), 724 Salter street. Brick, 1 story, 18x52 feet, slag roof.

Store Building, 817 North Broad street, \$7,500. Murray White (O). D. Henwood (C), 1509 Wood street. Brick and wood, 2 stories, 18x80 feet, slag roof, hot water heating.

Stable, Thirty-third and Master streets, \$3,000. A. M. Finkheimer (O), on premises. Metzger & Fisher (C), Otis Building. Erecting new partitions, 1 story addition, 17x53 feet, brick, cement floors, slag roof.

Residence, 2223 North Thirty-third street, \$300. Jas. Sionsky (O), 933 North Front st. Alex. Frankenberger (C), 3022 W. Dauphin street. Shed, 4x12 feet.

Store and Dwelling, 2861-63 North Twenty-second street, \$400. B. Locksman (O), on premises. Chas. Schlachman (C), 458 North Sixth street. Move stairway.

Dwelling, 1601 Randolph street, \$400. S. Grossman (O), 1620 North Seventh street. B. Isreal (C), 432 Poplar street. New brick front.

Shop, Salmon and Lefevere streets, \$500. Eagle Wagon Works (O and C), on premises. Brick, 1 story, 20x26 feet, slag roof.

Market House, Second and Noble streets, \$450. Penna. Co. for Insurance (O), 517 Chestnut street. John Duncan (C), 920 Walnut street. Remove dangerous walls.

Dwelling and Store, 158 Levering street, \$1,500. Alfonza Py (O), on premises. C. M. Swartley (C), Ridge avenue and Levering st. New flush bulk window.

Drugstore, Sixty-sixth and Lebanon avenue, \$555. H. Hergraves (O), on premises. Overbrook Repair Co. (C), 940 North Sixty-sixth street. New bulk window.

Store and Dwelling, Broad and Eric avenue, \$600. W. Gabell (O), on premises. Morris Vellin (C), 712 North Franklin street. New bulk.

Machine Shop and Garage, Beach and Berks streets, \$5,000. De Frain Sand Co. (O), on premises. Robt. E. Lederle (C), 830 Witherpoon Building. Building 2 story high alterations.

Sanitarium, 1707 Rittenhouse street, \$1,000. Miss M. Devinne (O), on premises. J. Morris Daniel (C), 252 South Juniper street. Interior alterations.

Engine Shop, Morris and Delaware avenue, \$450. Baugh & Sons Co. (O and C), Morris Street Wharf, Delaware river. Brick, 1 story, slag roof, 27x29 feet.

Residence, 6015 Wayne avenue, \$8,000. Jennie A. Myers (O), on premises. F. B. Davis (C), 240 North Sixteenth street. Stone, 1 story, 15x17 feet, slate roof, new bathroom, parquet floors.

Alterations and Additions

Warehouse, Delaware avenue and Walnut street, \$1,600. Chas. J. Webb Co. (O), 116 Chestnut street. Irwin & Leighton (C), Twelfth and Cherry streets. Five steel Haslett spiral chutes.

Dwelling, 4153-55 Apple street, \$300. Felix Miller (O and C), on premises. Stone, 12x15 feet, 1 story high.

Dwelling, 1216 South Twenty-sixth street, \$450. M. Holt (O), on premises. Robert Robson (C), 1827 Naudain street. Flush bulk.

Boiler Room, Forty-eighth and Woodland avenue, \$550. Home for Incurables (O), Forty-eighth and Woodland avenue. M. J. Mann (C), 4206 Chestnut street. Tunnel from coal bunker of boiler room to building.

Garage, 2035 North Sixty-third street, \$1,500. A. G. Smith (O and C), 2135 N. Sixty-third street. Brick, 1 story, 20x50 feet, slag roof.

Store, 2210 Market street, \$500. A. Kenter (O and C), 4051 Haverford avenue. Interior alterations.

Store, 1432 Columbia avenue, \$1,465. Robert Stuart (O), on premises. P. Savar (C), 718 Snyder avenue. Brick, 1 story, 14x12 feet, slag roof, flush bulk.

Dwelling, 2021 Pine street, \$600. Penna. Co. (O), 517 Chestnut street. Hayes Mendenhall & Son (C), Drexel Building. Brick, 1 story, 14x7 feet, slag roof.

Dwelling, 2309 North Gratz street, \$500. A. Gurland (O), Commercial Building. Hayes Mendenhall & Son (C), Drexel Building. New wall.

Dwellings, 6225-27 W. Girard avenue, \$300. M. V. Estepke (O), 6225 W. Girard avenue. H. A. McGrath (C), 549 North Sixty-third street. Interior alterations.

Dwelling, 938 North Fifty-first street, \$1,000. C. W. Rogers (O and C), 237 S. Forty-ninth street. Front porch and new stairway.

Shop, 223 South Jessup street, \$500. Lafferty Estate (O), 260 South Eleventh street. S. Reinick (C), 129 South Thirty-seventh st. Brick, 2 story addition, 155x8 feet, slag roof.

Church and Sunday School, Walnut and Fortieth streets, \$46,000. Walnut Street Presbyterian Church (O). James Johnston (C), 1721 Ludlow street. Frank Watson (A), 1211 Walnut street. Stone, 2 stories, 8x14 feet, interior alteration, and 1 story front addition. 43x17 feet.

Store, 837-39 Market street, \$500. Blauners (O). Harry R. Rust (C), 19 South Eighteenth street. Cut openings, 4x7 feet, in fourth floor, use fire doors.

Store, 7133 Germantown avenue, \$365. Meyer Dashevsky (O), 714 Germantown avenue. N. Litman (C), 2030 South Fifth street. Flush bulk window.

Storage, 211-213 South Ninth street, \$300. Lambeth Real Estate Co. (O), 207 S. Ninth street. American Paving & Construction Co. (C), 207 South Ninth street. Repair floor.

Store and Dwelling, Sixth and Bainbridge streets, \$1,800. L. Goldman (O), on premises. Cossa & Sproglia (C), 922 South Twelfth st. Brick, 3 story additions, slag roof, 11x13 feet.

Store, 1220 Columbia avenue, \$1,80. M. P. Bernsheim (O), on premises. Basch & Co. (C), 1426 South Front street. Move stairs and new flush bulks.

Dwelling, 1723 South Second street, \$475. Joseph Freidman (O), on premises. Harry Hurowitz (C), 1442 South Second street. Hot water heating to be installed.

Exchange, southeast corner Lancaster and Media avenues, \$9,500. Bell Telephone Co. (O), Seventeenth and Arch streets. Fred. A. Havens Co. (C), 845 North Nineteenth street. Interior alterations, partition plumbing and heating.

Factory, 319-21 North Broad street, \$500. Packard Motor Car Co. (O), on premises. A. P. Frain (C), 319 Market street. Brick partition, 16x66 feet.

Factory, Ridge avenue and Crawford st., \$2,000. J. & J. Dobson (O and C), on premises. Brick elevator shaft, 12x12 feet, 5 stories.

Store and Dwelling, 1501 Susquehanna avenue, \$550. M. Love (O), on premises. B. Shestack (C), 528 Reed street. Change present bulk.

Factory, 112 North Front street, \$1,350. J. Newlin Wilkins (O), 630 Bourse Building. Alfred E. Warren (C), 28 North Fifth street. Repair fire damage.

Store, 112-14 Produce avenue, \$1,000. Betz Estate (O and C), 419 New Market street. Brick, 1 story, 15x15 feet, slag roof.

Store, 2393 Orthodox street, \$700. W. Lintkowski (O), on premises. A. H. Norgorski (C), 2416 Orthodox street. Brick, 2 story front addition, 16x36 feet, slag roof, flush bulk.

Dwelling, 2427 North Fifth street, \$300. Ch. Gypson (O), on premises. G. V. Simon (C), 1023 Unruh street. Brick, 1 story, 13x3 feet, tin roof.

Dwelling, 1844 E. Allegheny avenue, \$375. Milton Goodman (O), on premises. E. J. Gilbert (C), 3337 Emerald street. Brick, 1 story, 13x11 feet, slag roof.

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O. W. Ketcham.....Builders' Exchange, Phila

Brick Renovating.

Adolph Christensen.....1433 Brown st., Phila.

Builders.

Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
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Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.

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Columns (Metal).

Pearce Fireproof Co.....1345 Arch st., Phila.

Composition Flooring.

Philadelphia Mineral Flooring Co.,
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The Marbleoid Co. ..Pennsylvania Bldg., Phila.

Dampproofing.

The Barrett Co.....New York City and Phila.

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Electrical Specialties.

Large-Dail Mfg. Co.....606 Cherry st., Phila.

Electrical Construction.

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Borden Stove Co.....118 N. 2d st., Phila.
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Henry M. Miller.....46-48-50 N. 2d st., Phila.
Richardson and Boynton Co..1342 Arch st., Phila.

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Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.
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Consolidated Expanded Metal Co.,
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Philadelphia Meter Co.,
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Mill Supplies.

The Fairbanks Co.....7th and Arch sts., Phila.
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Nurseries.

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Paints and Varnishes.

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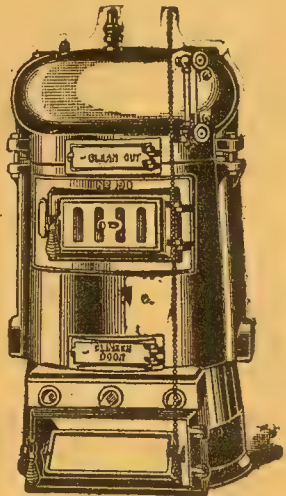
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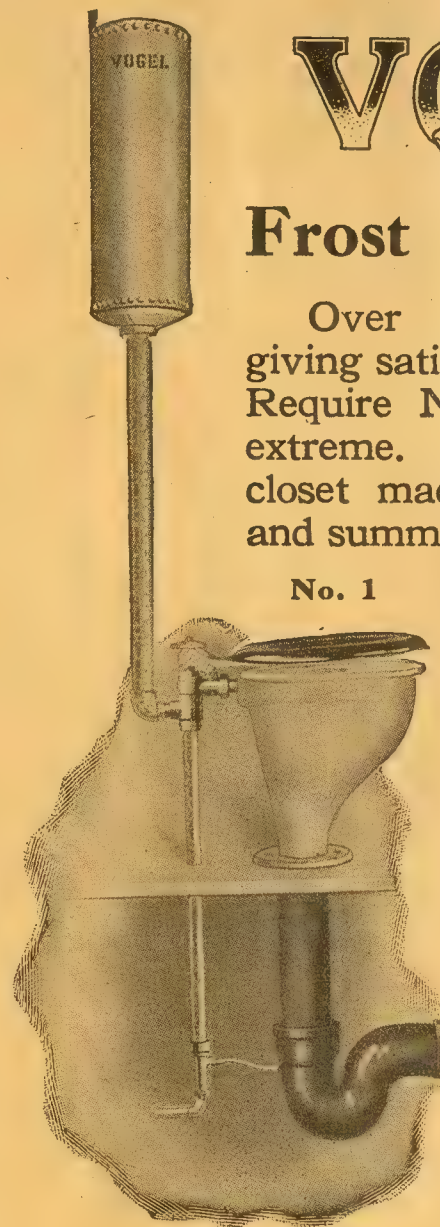
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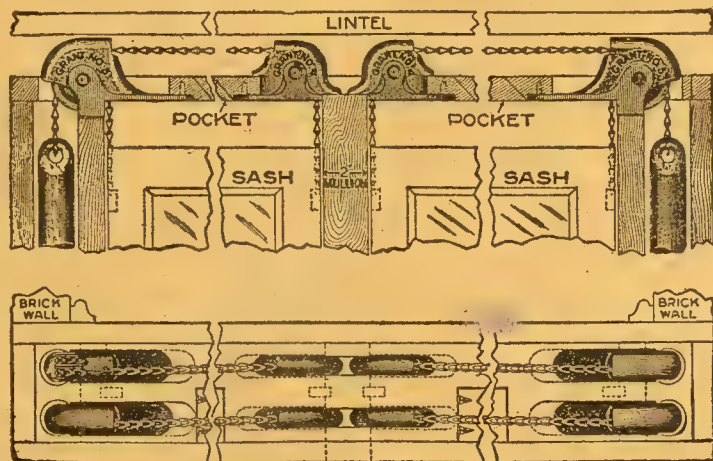
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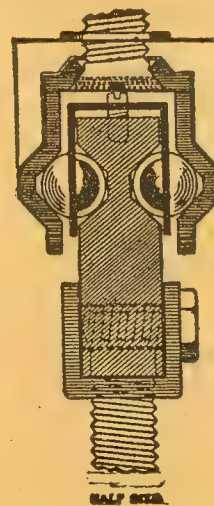
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Vol. XXXII., No. 26
June 27, 1917

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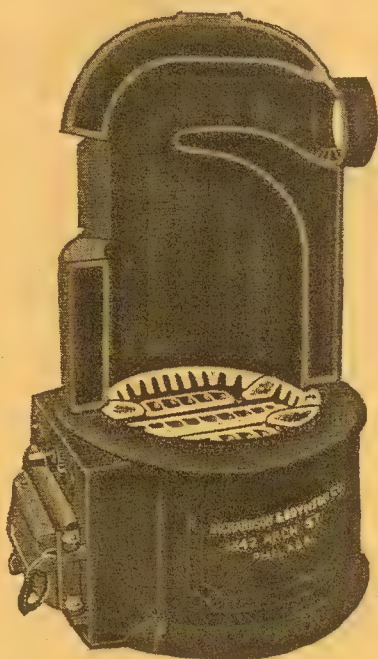
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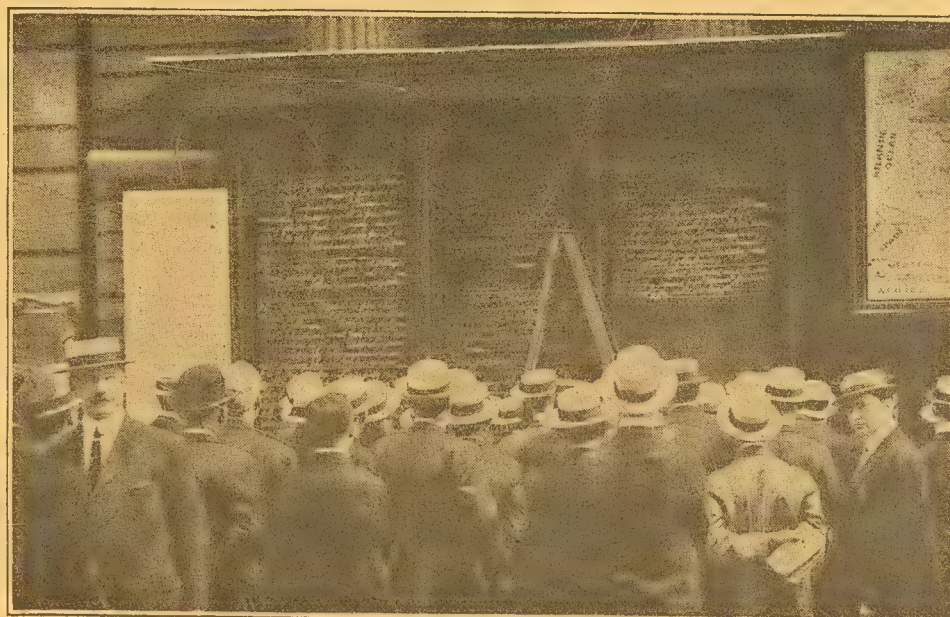


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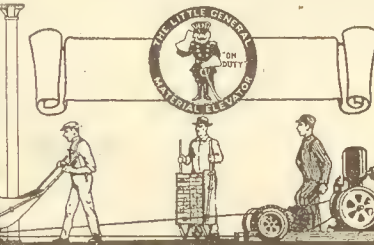
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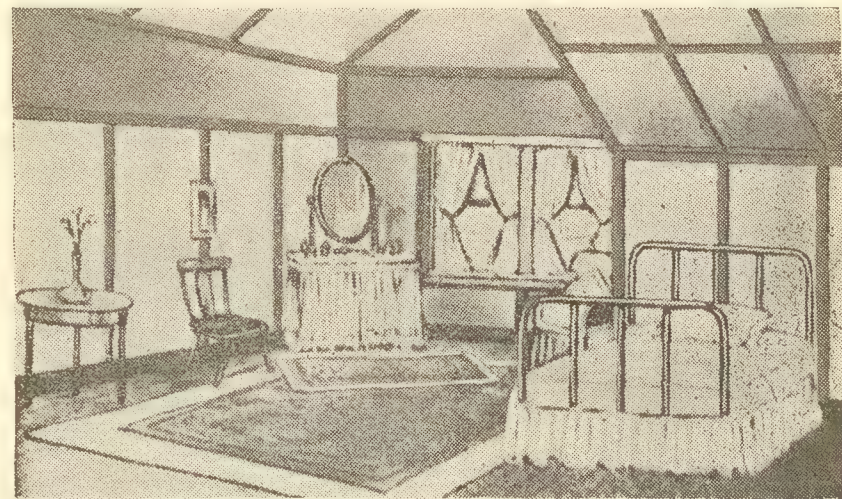
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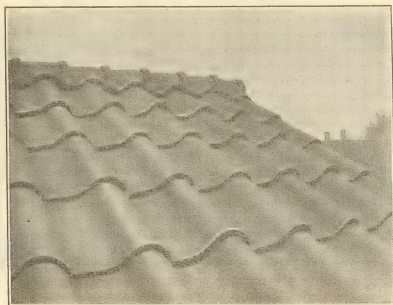
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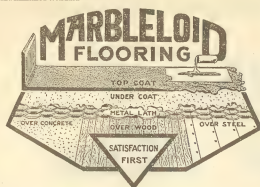
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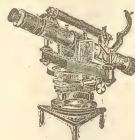
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 26

PHILADELPHIA
June 27, 1917

BUILDERS' GUIDE

FORMERLY

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and Builders' Guide
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As The Editor Sees It



THAT conditions are rapidly veering back to normal in the building trades is evidenced by a review of the situation in *The New York Real Estate Record* of June 16th. Under the heading of "Improved Building Outlook," the writer remarks:

"Although the last few weeks have been more or less discouraging from the standpoint of the architects, contractors and building trades generally, there now seems to be a decided indication that the clouds of depression that were hanging low, are lifting and that brighter and better times are in store for the construction interests. The current week has witnessed a notable improvement in the building situation, particularly throughout the Eastern section of the country. Reports from authentic sources, received from various parts of the country, as well as from the territory adjacent to New York, are more optimistic and shows a much better condition than has maintained.

"Probably the greatest factor responsible for the changed outlook is the widespread influence of the large amount of building work lately undertaken by the Government. Private building interests are gradually revising their mental attitude in regard to the building situation and are approaching a feeling that if the Federal authorities can afford to proceed with construction on such a gigantic scale there is no valid reason why they should further postpone the contemplated operations that have been in abeyance for some time. Substantially all branches of building construction have felt the effect of the movement. Private house construction, in particular, is evidencing increased activity. This type of building includes both the modest dwelling and more pretentious residences for wealthy owners. The erection of factories and commercial structures is proceeding in a most satisfactory manner and new operations of this character are being announced daily."

* * *

THERE is a firm demand for new and modernized structures. This demand will have to be satisfied if business is to run along as usual. While there was some hesitancy in the weeks immediately following the declaration of war the feeling is growing steadily that economic and financial affairs are rapidly becoming stabilized and that this nation will experience an era of unusually good business that might almost amount to boom times.

"The prices of building materials are gradually settling down to a stable basis. During the last two weeks there have not been nearly so many fluctuations in prices, and while there is no likelihood that the costs of building materials and supplies will be greatly reduced for a long time the feeling is prevalent that the upward movement has about ended. Under these conditions the prospective builder is in a better position to commence operations, as he will be more certain as to the final cost of the completed structure. The uncertainty involved on account of the recent market situation has been one of the principal deterrents to building."

* * *

DISCUSSING more intimately the general drift of building conditions the same authority observes:

"Considerably more optimism is evident in the building and allied industries this week than has been noticed for some time past. The feeling seems to be gaining in strength that the worst of the recent depression in the building situation has practically ended and from now on, all other things being equal, the conditions will be substantially improved. Quite a number of important projects have come to light during the past week. Some large contracts have been awarded and there is a better showing of jobs figuring. The great majority of these operations are manufacturing and commercial structures, semi-public or community buildings, and a sprinkling of costly residences. The erection of small dwellings, both for private ownership and on speculation, is progressing in a fairly satisfactory manner and the reports that are being received from the suburban sections indicate that the 1917 building season is well advanced and also that the volume of the work is to be considered almost normal. The high prices quoted

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for fabricated steel and the length of time necessary for the delivery of this commodity are factors that are holding up the construction of steel skeleton buildings that might otherwise go ahead. Other branches of construction work are much more active than they were two or three weeks ago. The award of new Government contracts for erection of buildings at the army cantonments has exerted an important influence on the building trade. Many of these structures are already started and others

and I am glad that you have written to us as you did.

I wish we could have an opportunity to discuss this personally, but in lieu of this possibility in the immediate future, the best explanation I can make is that we have been doing all possible for the public welfare in the way of developing an effective fire retardent for the shingle roof, and our plans contemplate continuance and enlargement of this work to the extent of the available resources. Everything centers around Dr. von Schrenk's investigation in St. Louis, and you will understand the difficulties connected with such tests and the long time required to bring them to satisfactory conclusions.

I had the pleasure of spending several days with Dr. von Schrenk in St. Louis a couple of weeks ago, and was very much pleased at the progress he has been able to make. I much prefer that he inform you as to the details, and am going to send him a copy of this letter, so that he can do so. In the meantime, I can safely say that the prospects for putting a satisfactory fire retardent compound on the market in the near future are very encouraging. You will appreciate, however, that it would be very inadvisable to take any premature action, and that no paint should be approved or advocated which has not been very thoroughly tested. It would be extremely helpful and interesting if Mr. Woolson and Mr. Booth could arrange to visit Dr. von Schrenk in St. Louis, and see the work he is doing. As the invitation has been extended and accepted I should think that the remaining step would be to arrange a date, which no doubt Dr. von Schrenk would be glad to do.

We keenly appreciate your attitude on this whole situation. You may be sure of the sincere and extensive interest of the lumber industry, and while progress has been slow, I am personally hopeful of an ultimate solution. In a recent letter to our Board I pointed out that the Atlanta fire again emphasizes the need of a shingle fire retardent which can be put on the market at an early date. I know that Dr. von Schrenk in developing the details of this work is anxious to co-operate closely with your organization, and you will no doubt hear from him as to the latest developments.

Vary truly yours,

E. A. STERLING,

Manager.

* * *

IF any paint can be devised, the application of which will render the shingle fireproof, or even fire-retardent, in the proper sense of this much-abused term, too much publicity cannot be given to the advent of a dis-

covery so fraught with importance to insurance men, builders and the building trades.

Considering the picturesque qualities of the cedar shingle, its cheapness compared with other materials, and its durability from the weather-wearing point of view, there can be no question that it serves as a dangerous carrier of the flames in contact with conflagration. This has been so effectually and so repeatedly established under test as to stand beyond dispute. For years invent-

ive minds have been busy with formulas designed to render the shingle fire retardant. Every now and then some manufacturer comes forward with a paint supposed to have the properties to bring about this much-desired condition. To date all have been failures under practical test. If Dr. von Schrenk is on the trail of the right combination, he will deserve to be hailed as a public benefactor. We shall await further and more detailed reports from the von Schrenk laboratory with much interest.

EDITORIAL NOTES

Braemer Air Conditioning Corporation, Philadelphia, Pa., announces that John F. Hale has become identified with the corporation in an official capacity, with headquarters in the Lafayette Building, Philadelphia. The arrangement became effective May 1. Mr. Hale has been identified with the heating and ventilating business since 1893, and during the last 20 years has been with Warren Webster & Co., of Camden, N. J., as assistant general manager, and with the Consolidated Engineering Company, of Chicago, as vice-president and general manager. During this time, eleven years were spent with Warren Webster & Co. and nine years with the Consolidated Engineering Company.

* * *

E. F. Houghton & Co., Philadelphia, Pa., have sold their heating and engineering department to the Bishop-Babcock-Becker Company, Cleveland, Ohio. The retirement of the Houghton Company from this field, it is stated, is due to the impossibility of obtaining machines and special tools and the scarcity of raw materials and labor.

* * *

Frank Y. Low and N. P. Zech, who have been associated for many years with H. M. Byllesby & Co., have become associated with the General Engineering and Management Corporation, New York. Mr. Low has been elected president and director, and Mr. Zech, vice-president.

* * *

The Atlantic Radiator Company, Huntington, Pa., has moved its main offices to New York, the new headquarters being located at 35 West Forty-second street. The accounting and sales departments are now located in the New York quarters, which contain also the offices of President Richard C. Schwoerer and of Vice-President Howard T. Gates. Assistant Secretary Alfred W. Smith will remain in charge of the company's plant in Huntington.

* * *

The National Housing Association will hold its annual meeting at Chicago October 15-17, 1917. Headquarters, Hotel La Salle. For information inquire of Lawrence Veiller, secre-

tary, 105 East Twenty-second street, New York City.

* * *

S. Louis Barnes, former president of the National Association of Master Plumbers, died at his home in Germantown, Philadelphia, from cerebro-spinal meningitis. Mr. Barnes was president of the National Master Plumbers' Association at the time when it was under the most extensive Government prosecution and became well-known for his efforts in maintaining the integrity of the organization.

* * *

The American Society for Testing Materials will hold its twentieth annual meeting at Atlantic City, at the Hotel Traymore, June 26 to 30, inclusive.

* * *

Officers were elected as follows at the annual convention of the New York State Association of Master Steam and Hot Water Fitters, held in Albany: President, John R. Sheehan, Schenectady; vice-president, H. J. Brandeles, Utica; secretary-treasurer, W. J. Olvany, New York; corresponding secretary, Henry B. Gomers, New York; sergeant-at-arms, W. T. Cantwell, Utica. The new directors are: C. Ashmunsen, Albany; W. F. Deven-dorf, Rochester; John J. Doherty, Poughkeepsie; W. T. Lane, Buffalo, and E. F. Joy, Syracuse. A dinner at the Hotel Hampton followed the close of the convention.

* * *

Equitherm Control Corporation is the new name of the Geissinger Regulator Company, New York. The company's main office is 30 Church street, New York, and its factory at 203 Greenwich street.

* * *

At a meeting of the Board of Directors of the National Association of Master Steam and Hot Water Fitters it was voted to temporarily postpone the convention of the association, which was to have been held in Chicago, June 11-14, with headquarters at the Hotel Sherman. This action was taken "on account of the uncertain conditions brought about by our country being in a state of war."

* * *

Richmond Radiator Company, New York,

has announced a wage increase of 10 per cent. The advance applies to about 500 employees at the company's plant in Uniontown, Pa.

* * *

"Automatic Control as Applied to Heat Regulation" was the principal topic for discussion at the May meeting of the Eastern Pennsylvania Chapter, held at the Engineers' Club, Philadelphia, May 10. S. E. Plewers presented the subject and exhibited models of improved present-day devices, illustrating the great advances made in recent years. Mr. Plewes attributed the "positive reliability" of modern automatic control, as distinguished from manual control, to the highly-developed design and special materials now used in the manufacture of temperature-regulating devices.

* * *

A. D. Granger Company, New York, dealers in power plant machinery and contractors for steam and electrical equipments, announces the removal of its offices to the Park Row Building, 15 Park Row.

* * *

Industrial Service and Equipment Company, Boston, Mass., announces the removal of its offices to 226 Devonshire street.

* * *

National Exposition of Safety and Sanitation will be held in the Grand Central Palace, New York, September 10-15, under the joint auspices of the American Museum of Safety and the National Safety Council.

* * *

National Paint, Oil and Varnish Association will hold its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

* * *

American Radiator Company's employees have donated an ambulance to the American ambulance corps in France.

* * *

New freight service by water between New York and New England ports has been established, and the first ship will arrive in New York next Tuesday. Cargoes will be delivered by this line at Providence, Fall River, Pawtucket, Attleboro, Warren, Taunton, Bristol and New Bedford, and it is planned to have daily sailings soon. Business men believe the new line will help relieve the railroad freight congestion about New York.

* * *

For the first time in the history of the United States Treasury receipts have exceeded \$1,000,000,000 in the fiscal year, the total to date being \$1,015,381,000, to compare with \$660,400,953 last year. Most of the increase is due to the doubling of the income tax.

* * *

A report presented to the National Physical Laboratory at its annual meeting declares that the Tower of London is sliding into the Thames. "Observations on the growth of cracks in the buildings of the tower, have been continued," the report says. "There have been no serious disturbances, but careful

examinations have revealed that movements of the wall have taken place, presumably in the nature of a slide toward the river of the whole block of masonry." It is further explained that the entire fabric of the structure moves appreciably with the rising and falling tide, making it impossible to carry out certain operations needing delicate equilibrium.

* * *

The Federal Trade Commission will be asked soon by William Denman, president of the Emergency Fleet Corporation, to fix a uniform price for steel and steel products for all industries throughout the country. The Commission will be asked to name a fair price which will afford the producers a fair profit not only on steel but on pig iron, iron ore and every other material entering into the manufacture of steel. The method of procedure will be for the Commission to suggest to all iron and steel manufacturers and ore producers that they unite and name a price themselves, subject to the Commission's approval. Should they decline the Government has the power to commandeer the plants. With the Government obtaining its steel for the proposed fleet of ocean-going vessels at a comparatively low price, it is feared unless some restrictive action be taken, the price of steel and iron to other industries will attain unheard of levels within a short time. That, it is pointed out, might be brought about by the natural law of supply and demand, as the Government's requirements when filled would leave an inadequate supply for other industries.

* * *

The United States Cast Iron Pipe and Foundry has advanced prices of pipe \$2 per ton, effective at once. This is a total of \$5 per ton in the last ten days. Prices of 4-inch pipe are now \$62 per ton, of 6-inch pipe \$59 per ton, and of 12 inches and upward \$55 per ton Burlington foundry, \$1.50 freight rate to New York.

* * *

A steel manufacturer says: "The steel trade will make a protest against efforts on the part of Washington to force sales of steel to the Government at almost cost level. Low Government steel prices would be bound to interfere with the steel industry. Many domestic consumers are already holding off purchases pending definite advices from Washington as to the attitude of the Government toward the steel industry."

* * *

Cramp & Co. have commenced work on naval militia barracks on the Henry Ford farm at Cape May, N. J., which will cost between \$500,000 and \$1,000,000.

* * *

The argument that the Government should pay less for an article than is paid by the general public rests on a single premise, that of patriotism. It is illogical and disputes the law of supply and demand. Here is a case in point. The maker of ship plates sells his plates to a private shipbuilder for \$100 a ton. He is asked to sell to the Government for \$50

a ton. Adjoining the manufacturer of ship plates is a manufacturer of toilet articles who has nothing to sell to the Government, but who enjoys unusual prosperity because his profits are 100 per cent. higher than they were a year ago. One manufacturer is penalized, while the other is permitted to reap a harvest. The stockholders of the steel plant are subject to double taxation, for they not only submit to a regular corporation tax, but also submit to a lowering of their profits by 50 per cent. The stockholders of the other concern reap all the benefits of high prices and pay only one tax. Business cannot be stabilized on such principles.

* * *

There is some indication that a number of the brainiest business men of the country, now serving the Government without compensation on sub-committees of the National Council of Defense, are discouraged with the conditions under which they are compelled to work. Word has reached the financial district indirectly that there is apt to be a shake-up in the Council in order to give these big men an opportunity to work effectively. There is at present a clash of authority in Washington, it is said, which engenders misunderstanding and hard feeling. It can hardly be expected that the industrial leaders of the world shall give up their time and efforts when these services are not appreciated by the Government.

* * *

One particular point of grievance lies in the price-fixing department of Washington. It appears that recommendations made by the experts assigned to various departments are overridden every day by Administration officials who have no expert knowledge of the subjects concerned. Thus a steel expert will fix the price of ship plates only to have a civilian official cut the proposed rate in half. The solution which is suggested for this situation is to appoint an arbitrary price-fixing board of experts and to make this board entirely independent of the National Council of Defense and also of the Army and Navy Departments.

* * *

The market for fabricated steel for building purposes is slacker than it has been for a long time. Practically no new contracts for the construction of office and loft buildings or other steel frame structures have been let and there are but few operations of this character in immediate prospect, although the building situation is generally improved. The high price of fabricated steel and the difficulties experienced in obtaining prompt deliveries have been influential in taking a number of important structures out of the market that might otherwise have been erected. At the present writing the pending Government work looms up as the most important factor to the structural steel industry. During the last week a number of contracts for the steel required in the construction of new buildings at navy yards, shipyards and dsimilar work have been placed.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Schools (various), Philadelphia. Architect, J. Horace Cook, Nineteenth, above Chestnut street. Owners, City of Philadelphia, Board of Education, William Dick, secretary, Nineteenth above Chestnut street, Philadelphia. Consists of general repairs and alterations, painting, equipment, sanitary improvements, repairs to radiators, boilers, etc. Owners ready for bids, due July 5th at noon.

Warehouse (add.), Broad and Washington avenue, Philadelphia. Architects, Rankin, Kellog & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, stone and reinforced concrete, 7 stories, 92x131 feet, concrete floors, elevators, fire doors, waterproofing and dampproofing (heating, plumbing and electric work reserved). Plans in progress.

Marine Barracks, League Island, Philadelphia. Architects, Rankin, Kellog & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, stone and concrete, 3 stories. Plans in progress.

Toilet and Washroom, Third and Allegheny avenue, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Bernstein Manufacturing Co., on premises. Brick, basement addition, 28x34 feet, steam heating, cement floors, metal lath, plumbing (electric work reserved by owners). Architects taking bids, due June 28th at noon. Conneen Const. Co., 1737 Filbert street; Freund Const. Co., Bulletin Building; Smith-Hardican Co., 1606 Cherry street, and Daniel J. McNamee, 1621 North Fifteenth street, are figuring.

Cabin (D 5), Gray's Ferry Road, Philadelphia. Architects, Maintenance of Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Hollow tile and stucco, 2 stories, 18x14 feet, slate roof, cement floor, ornamental iron work. Owners, care of J. H. Gumbo, superintendent, Thirty-second and Powelton avenue, taking bids, due July 2nd at 10 A. M. Specht & Sperry, Heed Building; Bailey-Lush Co., 201 North Broad street; J. Sims Wilson Co., 1125 Brown street; Graham-Campion Co., Otis Building; James H. Wells, Otis Building; H. E. Grau Co., 1707 Sansom street; Roydhouse-Arey Co., 201 North Broad street; Irwin & Leighton, 126 North Twelfth street; Robbins Contracting Co., Lafayette Building; Wark-Yardley Co., 1737 Filbert street; Abel Bottoms & Sons Co., 3611 Walnut street; Monaghan & Losse, 3016 Chestnut street; John N. Gill & Co., Otis Building; Fred A. Havens & Co., 845 North Nineteenth street; John V. Speth & Co., 1714 Sansom street; Driscoll Co., Stock Exchange Building; Mitchell Bros., 2125 Race street; Metzger & Fisher, Otis

Building; Charles McCaul Co., 1713 Sansom street; E. E. Hollenback, Inc., 1804 Brandywine street; Armstrong & Latta, Land Title Building; Brann & Stuart, Commercial Trust Building; A. L. Carhart, Hale Building, and Lincoln H. Smith, Hale Building, are figuring.

Residences (26), 900 North Sixty-fourth street, Philadelphia. Architect, private plans. Owners, Moss & Taylor, 560 North Fifty-eighth street, Philadelphia. Stone, 3 stories, 17x48 feet, slate and tin roof, central plant steam heating, combination lighting, tile work, hardwood floors. Owners sub-letting. Work about to be started.

Factory, Philadelphia. Architects, Stearns, Woodnutt & Schmoll, Stephen Girard Building, Philadelphia. Owner's name withheld. Brick (fireproof), 2 stories. Plans in progress. Architects will take bids in two weeks.

Garage (add.), 420 North Fifty-third street, Philadelphia. Architect, Edw. F. Gorman, Fifty-second and Arch streets, Philadelphia. Owners, West Park Garage, care of George H. Bardsley, 420 North Fifty-third street. Brick, 1 story, 80x80 feet, slag roof, electric lighting, cement floors. Plans completed. Owner will build.

Central Library, Nineteenth to Twentieth, Vine to Wood streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets, Philadelphia. Limestone and granite, 3 stories, 207x328 feet, tile, slag and copper roof (steam heating, electric lighting, plumbing and ventilating separate bids), passenger elevators (4), freight and book elevators (6), marble, tile and cork floors, kalamein sash, steel doors, waterproofing and dampproofing, metal lath. Architect taking bids, due July 12th at 2 P. M. (revised). George A. Fuller Co., Widener Building, Philadelphia, and Thomson-Starrett Co., 49 Wall street, New York City, are figuring.

Warehouse, Philadelphia. Architect, private plans. Owner's name withheld. Reinforced concrete and brick, 5 stories, 115x208 feet, slag roof (heating, lighting and plumbing reserved), pine and maple floors, rolled steel sash, fire doors, 6 elevators. J. Sims Wilson, 1125 Brown street, is taking sub-bids.

Factory Building, 516-26 Locust street, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Edward T. Biddle, 3408 Powelton avenue, Philadelphia. Brick, 1 story, 88x101 feet, slag roof, cement floors, plumbing, hollow metal sash (heating and lighting reserved by the owner). Architects taking bids, due June 29. Warren, Moore & Co., Commercial Trust Building; Barclay White & Co., 1713 Sansom street; Smith-Hardican Co., 1606 Cherry st.; Driscoll Co., Stock Exchange Building; H. C. Rea Co., 1314 Arch street; J. Sims Wilson Co., 1125 Brown street, are figuring.

Apartment House (alts.), 2225 North Broad street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner's name withheld. Consists of extensive exterior and interior alterations. Plans completed. Ready for bids in a few days.

Hospital Building, Broad and Ritner sts., Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Methodist Hospital, on premises. Brick, stone, steel and terra cotta, 4 stories and braselement, 120x76 feet, tile roof, steam heating, electric lighting, tile and marble work, fire doors, cement and composition floors, hollow tile, metal lath. Plans in progress.

Administration Building (alt.), Broad and Ritner streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Methodist Episcopal Hospital, on premises. Consists of interior alterations to fourth floor, steam heating, electric lighting, tile work, metal lath. Architect taking sub-bids.

Garage (alt. and add.), northwest corner of Seventh and Spring Garden streets, Philadelphia. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, Very Best Garage Co., care of M. Berger & Co., northeast corner of Seventh and Green sts., Philadelphia. Brick, 1 story, 80x111 feet, slag roof, steam heating, electric lighting, cement floors, hollow metal skylights, tearing down present building to second floor level and exterior alterations. Plans about completed. Architect taking sub-bids.

Band Stand, Hunting Park, Philadelphia. Architect, Walter D. Smedley, Stephen Girard Building, Philadelphia. Owners, City of Philadelphia, office of Park Commissioners, Room 127, City Hall, Philadelphia. Timber, 1 story, 34 feet in diameter, tin roof, pine floors, metal lath. Architect taking bids, due as soon as possible. H. E. Grau Co., 1707 Sansom street, is figuring.

Loft Building, Eighth and Orange streets, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owner's name withheld. Reinforced concrete and brick, 6 stories, 80x56 feet, slag roof, vacuum heating, electric lighting, tile work, rolled steel sash, fire, kalamein and hollow metal doors, cement and maple floors, hollow tile, elevators, ornamental iron work. H. E. Grau Co., 1707 Sansom street, are figuring (approximate bid).

Carpenter and Pattern Shop, Midvale, Philadelphia. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Brick and steel, 2 stories, 46x130 feet, rubberoid roof, concrete floors (steam heating and lighting reserved), concrete floors, rolled steel sash, iron stairs, ornamental iron work, metal lath, safety treads, sprinkler system. Owners taking bids, due June 30th. Doyle & Co., 1519 Sansom street,

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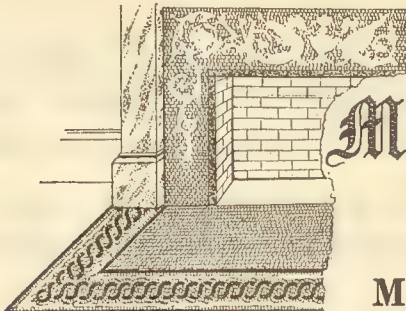
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AWARDING A CONTRACT

and Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Stores (2) (alt. and add.), Broad and Columbia avenue, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Agents, Mastbaum Bros. & Fleisher, 1424 South Penn Square, Philadelphia. Brick, 1 story, slag roof (steam heating awarded), electric lighting, tile and marble work, flush bulks, maple and cement floors, metal lath. Architect taking bids, due July 2nd at 9 A. M. D. Henwood, 1509 Wood street; Freund Const. Co., Bulletin Building; Abel Bottoms & Sons Co., 3611 Walnut street; Lam Building Co., 1001 Wood street; Smith-Hardican Co., 1606 Cherry street, are figuring.

Sales and Service Building, 847-49 North Broad street, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Heymann & Bro., Widener Building, Philadelphia. Reinforced concrete, brick and terra cotta, 3 stories, 46x160 feet, slag roof, steam heating, electric lighting, cement and maple floors, metal lath, elevators, steel doors. Architect taking bids, due July 2nd at 9 A. M. Hogg Const. Co., 1634 Sansom street; Turner Concrete Steel Co., 1713 Sansom street; Warren-Moore & Co., Commercial Trust Building; Cramp & Co., Denckla Building, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

Office Building, Girard Point, Philadelphia, \$20,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Penn-



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sylvania Railroad Co., Broad Street Station, Philadelphia. Brick, 2 stories, 20x80 feet, slate roof, steam heat, electric light. Plans completed. Owners will take bids in a few days.

Elevated Stations (5), Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, William S. Twining, Director, Bourse Building, Room 754, Philadelphia. Brick, stone, steel, concrete and terra cotta, 3 stories and basement, slag roofs, cement floors, 42x42 feet, 57x20 feet, 49x22 feet, 50x25 feet and 53x21 feet, hollow

tile, tile, marble and terrazzo work, rolled steel sash and skylights, fire and hollow metal doors, hollow metal sash, ornamental iron work, metal lath, iron stairs, safety treads, roof ventilators, metal ceiling (plumbing, electric work and elevators separate bids, contracts Nos. 622-23). Owners taking bids, due July 10th at noon. James H. Wells, Otis Building; Standard Const. Co., 1713 Sansom street; H. E. Baton, Twelfth and Sansom streets; Mitchell Bros., 2125 Race street, and H. H. Wehmeyer, 1004 Lehigh avenue, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office Building, Chestnut street, between Eleventh and Twelfth streets, \$500,000. Architect, Frederick Webber, Morris Building, Philadelphia. Owners, Mershon Bros., Land Title Building, Philadelphia. Brick, stone, terra cotta and steel, 12 stories, 66x144 feet, slag roof (heating and plumbing reserved), electric lighting, tile and marble work, hollow metal sash and skylights, fire and hollow metal doors, ornamental iron work, cement and maple floors, hollow tile, metal lath, elevators, metal weather strips, waterproofing and dampproofing. Contract awarded to John R. Wiggins & Co., Otis Building, Philadelphia.

Warehouse (add.), 1135 Colona street, Philadelphia, \$5,000. Architect, private plans. Owners, Enterprise Mill and Soap Works, 2229-33 North Twelfth street. Brick and steel, 2 stories, 16x75 feet, slag roof, maple floors. Contract awarded to Burd P. Evans & Co., Thirteenth and Wallace streets.

Garage, Wissahickon avenue and Westview street, Germantown. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street. Owner, F. Royal Hammett (Crew Levick Co.), Land Title Building. Stone, 1½ stories, 18x24 feet, slate roof, cement and pine floors, hot water heating, electric lighting. Contract awarded to Harry Murphy, Willow Grove, Pa.

Residences (3), 5005-09 Wayne avenue, Philadelphia, \$24,000. Architect, private plans. Owner, Mrs. Emma A. Bishop, 165 West Seymour street. Brick, 2 stories, 15x33 feet, slag roof, hot water heating, tile work, electric

lighting, hardwood floors. Contract awarded to Charles H. Eckman, 2126 North Sixteenth street, Philadelphia.

Church, Twenty-eighth and Lehigh avenue, Philadelphia, \$20,000. Architects, Street & Stackhouse, 129 South Fifth street, Philadelphia. Owners, Northwest Memorial Baptist Church, care of Rev. W. Dallas Cope, 4425 North Eighteenth street, Philadelphia. Stone, 1 story, 74x90 feet, slate roof, pine floors, electric lighting. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Factory (add.), Buttonwood street, between Fifth and Sixth streets, \$15,000. Architect, private plans. Owner, David W. Van Tine, 1936 North Park avenue, Philadelphia. Brick, 1 story, 22x22 feet, slag roof, fire tower and elevator shaft addition, 3 stories, 10x18, cement and maple floors, steam heating, electric lighting, hollow metal skylights, 1 elevator. Contract awarded to William Easterbrook, 146 North Fourth street, Philadelphia.

Bank Building (alt.), Broad and Columbia avenue, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Columbia Avenue Trust Co., Broad and Columbia avenue. Consists of interior alterations, 1 story, steam heating, electric lighting, tile and marble work, cork, pine and composition floors, fire doors, bank fixtures, metal lath, waterproofing and ornamental iron work. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street.

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and Delaware avenue, Philadelphia, \$10,800. Architect, Harry Zimmerman, 4957 Hawthorne street, Frankford, Philadelphia. Owners, Chas. Lennig & Co., Inc., 112 South Front street, Philadelphia. Brick, steel, 1 and 2 stories, 40x20 feet and 20x50 feet, slag and tin roof, pine and maple floors (heating reserved), electric lighting, tile and marble work, roof ventilators. Contract awarded to George W. Crosley, Tacony and Bridge streets, Bridesburg, Philadelphia.

Reservoir, Nicetown, Philadelphia. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Reinforced concrete, 30x75 feet, metal frame. Contract awarded to Concrete Const. Co., 1618 Thompson street.

Store (alt.), 145 Dock street, Philadelphia, \$2,000. Architect, private plans. Owner, Charles H. Peacock, 137 Dock street, Philadelphia. Consists of new first floor front, partitions, stairway and interior alterations, flush bulks. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Warehouse (add.), 969-75 North Second street, Philadelphia, \$75,000. Architect, private plans. Owners, American Store Co., Fourth and Noble streets, Philadelphia. Brick, third, fourth and fifth story addition, 80x120 feet, slag roof, steam heating, electric lighting, maple and pine floors. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residence (alt. and add.), 4805 Springfield avenue, Philadelphia, \$9,500. Architects, De

Armond, Ashmead & Bickley, 1519 Walnut street. Owner, Charles V. Bergh, on premises. Brick, 2 story addition, 26x25 feet, tin roof, hardwood floors, tile work (heating, plumbing and electric work reserved). Contract awarded to Davis & Clayton, 1841 Ginnodo street, Philadelphia.

Parsonage (alt. and add.), Frankford, Philadelphia. Architects, Stearns, Woodnutt & Schmoll, Stephen Girard Building, Philadelphia. Owners, Central M. E. Church of Frankford, Rev. John Watchorn, Orthodox and Franklin streets, Frankford, Philadelphia. Brick, 2 stories, 18x18 feet, slag roof (parquetry floors and heating reserved), electric lighting, tile and marble work, pine floors. Contract awarded to George Rimer, 4842 Hawthorne street, Philadelphia.

Bridge (Columbia Bridge), Schuylkill River at Belmont, Philadelphia. Engineer, Samuel T. Wagner, Reading, Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel, waterproofing, 103 feet, 8 spans. Contract awarded to Seeds & Derham, 6314 Wissahickon avenue.

Residence (alts.), 1718 Walnut street, Philadelphia, \$2,500. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Sydney E. Hutchinson, on premises. Millwork and plastering, steam heating, electric lighting. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

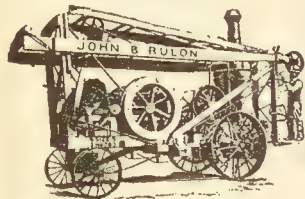
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PENNSYLVANIA

Construction News

Club House (add.), Bethlehem, Pa. Architect, A. Litzenberger, South Bethlehem, Pa. Owners, Bethlehem Club, Bethlehem, Pa. Stone, brick, steel and stucco, 2 stories, 40x36 feet, and 3 stories, 81x40 feet, tin and slag roof, oak and pine floors, electric lighting, tile work, metal lath, fire escapes (heating reserved). Architect taking bids, due June 27th. Pomeroy Const. Co., 1609 Ranstead street, are figuring.

Masonic Temple, Tamaqua, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owners, Order of Mason, F. and A. M., care of Dr. George A. Wilford, Tamaqua, Pa. Brick, stone, steel and terra cotta, 3 stories, mezzanine and basement, 46x150 feet, slag roof, oak, cement and composition floors, tile work (steam heating and electric work reserved), tile and marble work, hollow tile, metal lath, waterproofing. Plans about completed. Architect will take bids in a week.

Farm House (alt. and add.), Paoli Road, near West Chester, Pa. Architect, Edw. S. Paxson, 729 Walnut street, Philadelphia. Owner's name withheld. Brick and stucco,

2½ stories, sleeping porch and bath rooms (2), additions, mill work, slate roof, general alterations. Plans in progress.

Sewerage and Sewage Disposal Plant, Ivy Rock, Pa. Engineers, Harrison, Mertz & Emlen, Inc., Commercial Trust Building, Philadelphia. Owners, Alan Wood Iron and Steel Co., Widener Building, Philadelphia. One mile of terra cotta and iron pipe, automatic ejector station, mechanical equipment, 2 Imhoff tanks, dosing chamber, sludge drying beds, sprinkling filters, resettling basins and disinfection house. Plans about completed.

Shell Houses (3) and Magazine Buildings (4), Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Hollow tile, steel and stucco, 1 story, 198x50 feet, asbestos shingle roof, pine floors, rolled steel sash, hollow metal doors, waterproofing and damp-proofing. Owners have received bids.

Store and Apartment, Ninth and Saville avenue, Eddystone, Pa. Architect, Andrew P. Gladden, 701 West Seventh street, Chester,

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BOTH PHONES

Pa. Owner, Edgar Termeus, Eddystone, Pa. Brick, 2 and 1 story, 40x32 feet and 40x18 feet, slag roof, hot water heating, combination lighting, pine and cement floors. Architect ready for sub-bids. Plans on file at Builders' Exchange, 18 South Seventh street, Philadelphia.

Apartments, Chester, Pa. Architect, Andrew P. Gladden, 701 West Seventh street, Chester, Pa. Owner's name withheld. Brick, 2 stories, 40x42 feet, slag and tin roof, hot water heating, composition lighting, tile mantels, cement and pine floors, metal lath. Architect ready for sub-bids. Plans on file at Builders' Exchange, 18 South Seventh street, Philadelphia.

Residence (alt.) and Garage, Jenkintown, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, R. S. Bulger, Jenkintown, Pa. Consists of interior alterations to residence, new fireplace, partitions and paneling; garage, frame, 1 story, 20x30 feet, shingle roof (heating reserved). Plans about completed. Architect will take bids in a few days.

Twin Residences (7 pairs), Yeadon, Pa. Architect, Jesse T. Hoekstra, 3612 South Eighty-fourth street, Philadelphia. Owner, Theodore Presser, 1710 Chestnut street, Philadelphia. Brick and stone, shingle and stucco, 2 and 2½ stories, 14x36 feet and 14x34 feet, shingle and tile roof (heating, lighting and plumbing reserved), poplar and chestnut floors, tile work. Owners have received bids.

Garage and Hardware Store, Shickshinny, Pa. Architect, Thomas Podmore, Bennett Building, Wilkes-Barre, Pa. Owners, J. B. Woodworth's Sons, Shickshinny, Pa. Concrete and hollow tile, 2 stories and basement, 10x135 feet, slag roof, steam heating, electric lighting, reinforced concrete floors, hollow tile, 2 elevators. Plans in progress.

Swimming Pool, Wilkes-Barre, Pa. Architect, Clark Wright Evans, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Y. W. C. A. of Wilkes-Barre, Wilkes-Barre, Pa. Stone, 1 story, 30x60 feet, skylights, tile floors, steam heating, electric lighting, tile work, hollow metal skylights. Plans completed.

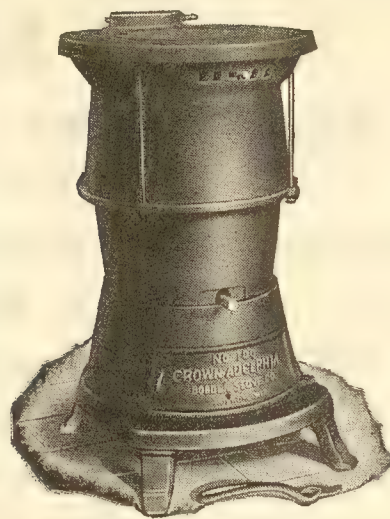
Wall, Scranton, Pa. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owners, Y. M. C. A. of Scranton, Scranton, Pa. Stone, brick and iron, 23 feet high, 80x210 feet. Architect has received bids.

Office Building, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maccar Truck Co., Scranton, Pa. Brick, 1 story, 40x65 feet, slag roof, pine floors, steam heat, electric lighting. Plans in progress.

School, Foster Township, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Foster Township School Board, Foster Township, Pa. Brick or frame, 1 story, 4 rooms, slate roof, steam heating, pine floors. Plans in progress.

Church (alt. and add.), Wilkes-Barre, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, St. Stanislaus' Polish Catholic Church, Wilkes-Barre, Pa. Frame, 1 story, 40x40 feet, shingle roof, steam heating, pine floors, electric lighting. Plans in progress.

Residence, Nanticoke, Pa. Architect, Henry



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Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. J. A. Norstedt, Nanticoke, Pa. Hollow tile and stucco, 2½ stories, 28x34 feet, slate roof, steam heating, electric lighting, tile work, hardwood and pine floors. Plans in progress.

Silk Mill (add.), Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Silk Co., Wilkes-Barre, Pa. Brick, 2 stories, 24x50 feet and 4 stories, 20x30 feet, gravel roof, pine floors, electric lighting, rolled steel sash. Architects have received bids.

Office Building, Edgemont, Delaware County, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Edgemont Iron Works, Edgemont, Delaware County, Pa. Reinforced concrete, brick and steel, 2 stories, 32x80 feet, slate and slag roof, pine and cement floors, metal lath, hollow metal sash and skylights, fire doors (steam heating, plumbing and electric work reserved). Architect taking bids, due June 29th. W. Howard May, DuPont Building; Wm. D. Haddock & Co., 804 Orange street, Wilmington, Del., and E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia, are figuring.

Residence and Garage, Ogontz, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Mrs. Herbert K. Taylor, Ogontz, Pa. Stone, 2½ stories, 50x56 feet, shingle roof (warm air heating separate bid), electric lighting, tile work, hardwood and cement floors. Revised plans in progress. Architects ready for bids in a few days.

School (remodeling), near Center Square, Montgomery County, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School District of Whitpain Township, Eugene Whittock, chairman School Board, R. F. D. No. 1, Norristown, Pa. Brick, 2 stories, 45x60 feet, steam heating, electric lighting, pine floors, hollow tile, metal lath. Owners taking bids, due July 2nd. Alexander Chambley, 243 South Tenth street; Albert Zellfelder, 151 South Broad street, Philadelphia; James Bartleson, Ambler, Pa.; Walter Schaff, Blue Bell, Pa., and Wm. D. Lukens, North Wales, Pa., are figuring.

Office, Hazleton, Pa. Architect, George F. Schroeder, Wilkes-Barre, Pa. Owners, Hazleton Produce Co., Hazleton, Pa. Brick, 1 story,

20x30 feet, slag roof, steam heating, pine floors. Owner has received bids.

Residence, Riverside Drive and Sheldon street, Wilkes-Barre, Pa., \$7,000. Architect, Frank Sahm, Second National Bank Building, Wilkes-Barre, Pa. Owner, Joseph Cohen, South Main street, Wilkes-Barre, Pa. Stucco, 2½ stories, 28x40 feet, slate or shingle roof, steam heat, electric lighting, metal lath, hardwood floors, tile and marble work. Architect taking revised bids. A. M. Hildebrand, Wilkes-Barre, Pa., is figuring.

Boat House, Harvey's Lake, Pa. Architect, George Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Richard Trethaway, Wilkes-Barre, Pa. Frame and concrete, 14x30 feet, shingle roof, pine floors. Owner taking bids. E. T. Long, Wilkes-Barre, Pa., is figuring.

School (add.), Cortdale, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Frank Gosart, secretary of Building Committee, Cortdale, Pa. Frame, 30x55 feet (steam heating, plumbing and electric wiring reserved). Owner taking bids, due July 5th. Edwards & Edwards, J. H. Milander, Kehoe & Mowery, and W. B. Richards, all of Wilkes-Barre, Pa., and Williams & Kelly, Dorranceton, Pa., are figuring.

Insane Ward, Blakely, Pa. Architect, E. H. Davis, Union Bank Building, Scranton, Pa. Owners, Blakely Poor District, Mr. Smith, secretary, Scranton, Pa. Brick, 2 stories and basements, 80x80 feet, slate roof, steam heat, electric lighting, concrete floors. Owners will take bids, due July 9th.

Silk Mill, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, George W. Frisbie, Scranton, Pa. Brick and concrete, 2 stories and basement, 62x112 feet, slag roof, steam heating, electric lighting. Owner has received bids.

Bank (alt. and add.), Wyoming avenue, Scranton, Pa., \$70,000. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owners, Third National Bank, Scranton, Pa. Limestone, brick and hollow tile, 1 story and 3 stories, 67x80 feet. Barrett roofing (plumbing and bank fixtures reserved), electric lighting, tile, marble and terrazzo work, rolled steel sash, metal bulks, city steam heating, marble floors, hollow tile, metal lath, metal

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window guards, ornamental iron work. Architect has received bids.

School, Dunmore, Pa., \$40,000. Architect, J. J. Howley, Scranton, Pa. Owners, School Board of Dunmore, Ed. P. Moore, secretary, Dunmore, Pa. Frame, 2 stories, 6 rooms and auditorium, steam heating, electric lighting, slate roof, yellow pine floors. Plans completed. Owners will take bids, due July 12th.

Schools (2) and Boiler House, Old Forge, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, School Board of Old Forge, Old Forge, Pa. Wood, reinforced concrete and brick, 1 story, 4 rooms each, slag roof, steam heating, slate floors. Plans completed. Owners ready for bids.

Residence (alt. and add.), South Washington street, Wilkes-Barre, Pa. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, Dr. N. L. Scheppert, South Washington street, Wilkes-Barre, Pa. Brick, 20x30 feet, slag roof, steam heating, electric lighting, yellow pine floors. Owner taking bids.

Store Front, South Main street, Wilkes-Barre, Pa. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Mr. Davidson, South Main street, Wilkes-Barre, Pa. Consists of plate glass, press brick, 3 stories, tile work. Owners taking bids, due July 10th. Wilson J. Smith, John Schmitt Sons, and Schmitt & Co., all of Wilkes-Barre, Pa., are figuring.

Residence and Garage, Port Washington, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Miss Caroline S. Sinkler, 1604 Locust street, Philadelphia. Hollow tile and stucco, 2 stories, 36x31 feet; garage, 1 story, 34x28 feet, shingle roof, hardwood floors. Architects taking bids, due June 28th. H. H. Burrell, 206 South Quine street, is figuring (only bidder).

Theatre, Shamokin, Pa., \$90,000. Architect, W. H. Lee, Shamokin, Pa. Owner, Chamberlain Amusement Co., Shamokin, Pa. Brick, 1 story, 72x125 feet, slag roof, wood floors, steam heat, electric lighting, tile, marble and

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terrazzo work, metal lath, fire doors. Architect taking bids. Shamokin Lumber Co., Percy Swank, both of Shamokin, Pa., are figuring. Architect also taking sub-bids.

Fire House, Treverton, Pa. Architects, Schweitzer & Osgood, Treverton, Pa. Owners, Treverton Fire Co., Treverton, Pa. Brick, 2 stories, 50x100 feet, slag roof, concrete and pine floors (heating and plumbing reserved), electric lighting. Owners taking bids, due June 27th. Shamokin Lumber Co., Shamokin, Pa., are figuring.

Residence, Lewisburg, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owner, Hon. A. W. Johnson, Lewisburg, Pa. Frame, 2 stories, 30x30 feet, shingle roof, hot air heating, electric lighting, wood floors. Plans completed. Owner will sub-let.

Residence (alt. and add.), Haverford, Pa. Architect, E. J. Holmes Co., 1526 Locust street, Philadelphia. Owner, C. A. Hagen, Haverford, Pa. Interior alterations, 2 stories, new stone porch, tin roof, pine and oak floors, electric lighting, plastering. Architect taking bids soon as possible. Frank G. Stewart, 1619 Sansom street, is figuring.

Factory (add.), Ardmore, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Reinforced concrete, brick and steel, 5 stories (heating, electric work, plumbing and elevators reserved), slag and tile roof, maple floors. Plans in progress.

School (add.), Eleventh and Main streets, Darby, Pa. Architects, Ed. F. Durang & Son, 1220 Locust street, Philadelphia. Owners, R. C. Church of the Blessed Virgin Mary, care of Rev. Wm. A. Fitzgerald, rector, on premises. Stone and brick, second story addition, 80x60 feet, slate roof (heating, lighting and plumbing reserved), pine floors. Architects taking bids, due June 30th. Wm. R. Dougherty, 1610 Sansom street; H. E. Baton, Twelfth and Sansom streets; John McShain,

1610 North street; Wan. J. McShane, 417 South Thirteenth street; Jacob Myers Sons Co., Witherspoon Building; John J. Murphy, 4034 Powelton avenue, and Charles McCall Co., 1713 Sansom street, Philadelphia, are figuring.

Stores (6 or 10), Lancaster Pike, Ardmore, Pa. Architect, private plans. Owner, Frank H. Mahan, Lancaster Pike, Ardmore, Pa. Brick, 2 stories, 16x60 feet, slag roof. Plans in progress. Owner will take sub-bids in two months.

Residence, Stable and Garage, Gratersford, Montgomery County, Pa. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner's name withheld. Hollow tile and stucco, 2 and 1 stories, shingle roof, hot water heating, pine and cement floors. Plans in progress.

Moose Home, 226 Chestnut street, Coatesville, Pa. Architects, Kerns & Carroll, 242 East Main street, Coatesville, Pa. Owners, Loyal Order of Moose, No. 297, Coatesville, Pa. Brick, 3 stories, 142x45 feet, slag roof, chestnut and maple floors (heating, plumbing and gas line storage system reserved). Garage on first floor, electric lighting, tile work, kalamain doors, metal bulks, metal lath, elevators, waterproofing. Architects taking bids, due July 2nd. Pomeroy Const. Co., 1609 Ransdell street; Thomas J. & Joseph R. Whelan, Mutual Life Building, Philadelphia; Wesley Beard & Son, W. K. Thorne, 351 Lumber street; W. J. Elliott, Pennegar Building; H. H. Osborn, 16 East Main street, all of Coatesville, Pa., are figuring.

Office Building, Conshohocken, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, A. Talone, Conshohocken, Pa. Brick, marble trim, 2 stories, 35x75 feet, slag roof, pine and terrazzo floors (heating, plumbing and electric work reserved). Plans completed. Architect ready for bids.

Residence, Perkaskie Township, Bucks Coun-

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ty, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Frank Cressman, care of Allen R. Cressman Sons, Sellersville, Pa. Hollow tile or brick and plaster, 2 stories, 30x50 feet, and 2 wings, 14x20 feet, tile roof, electric lighting, hardwood floors, dampproofing. Architect taking bids, due July 7th. The following are figuring: J. Sims Wilson, 1125 Brown street, Philadelphia; W. D. Lukens, North Wales, Pa.; J. W. Stoneback, Quakertown, Pa.; Fred W. Peffer, Hellertown, Pa.; Myer & Stoneback, Perkaskie, Pa., and Ely M. Utz, Telford, Pa.

Fire House (alt.), Chambersburg, Pa. Architect, B. B. Markley, Patriot Building, Harrisburg, Pa. Owners, Junior Hose Co., Mr. Mowery, Town Clerk, Chambersburg, Pa. General interior alterations, new front, cut stone, 2 stories, 44x60 feet, maple floors, electric wiring. Owners taking sub-bids.

Pennsylvania Contracts Awarded

Residence (add.), Rosemont, Pa., \$12,500. Architect, Robert W. Pollock, 1802 Chestnut street, Philadelphia. Owner, Edwin H. Pitter, Bellevue Court Building, Philadelphia. Stone and stucco, 3 stories, 23x42 feet, composition shingle roof (hot water heating extension reserved), electric lighting, tile work, marble work, pine and hardwood floors. Contract awarded to Graham-Campion Co., Otis Building, Philadelphia.

School, Locust Gap, Northumberland County, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education of the School District of Mount Carmel Township, Northumberland County, Pa. Brick and stone, 3 stories and basement, 79x139 feet, slate or asbestos shingle roof, maple, pine, gum, cement and asphalt floors (steam heating, ventilating, plumbing, electric work reserved), tile and marble work, hollow metal skylights, kalamein doors, metal lath, enameled and tapestry brick, safety treads, roof ventilators, metal ceilings, dampproofing. Contract awarded to Andrew Breslin, Summit Hill, Pa.

Bridges (3), between Belle Mead and Manville, on New York Branch. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway, Reading Terminal, Philadelphia. Steel and concrete and waterproofing. Contract for No. 56 awarded to Phoenix Bridge Co., 410 Walnut street, Philadelphia; waterproofing to Dale Eng. Co., 103 Park avenue, New York City. Contract for No. 66 awarded to Phoenix Bridge Co., 410 Walnut street, Philadelphia; waterproofing to Dale Eng. Co., 103 Park avenue, New York City. Contract for waterproofing on Bridge No. 57 awarded to H. W. Geshwind, Heed Building, Philadelphia.

Warehouse, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, Wilkes-Barre, Pa. Owner, Henry Sharapo, Wilkes-Barre, Pa. Brick, 2 stories and basement, 96x37 feet, slag roof, steam heating, electric lighting, rolled steel sash, concrete and wood floors. Contract awarded to Wm. B. Richards, Wilkes-Barre, Pa.

Administration Building, Richmond Hill, Scranton, Pa. Architect, Fred A. Nelson, Connell Building, Scranton, Pa. Owners, Johnson School, Richmond Hill, Scranton, Pa. Brick, 3 stories, irregular, slate roof, central steam heat, electric lighting, tile work. Contract awarded to Freda & Carnecci, Scranton, Pa.

Residences (80), near Wilkes-Barre, Pa.

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Architects, Sturdevant & Poggi, Wilkes-Barre, Pa. Owners, Lehigh & Wilkes-Barre Coal Co., Wilkes-Barre, Pa. Frame, 2½ stories, slate roof, hot air heating, electric lighting, wood floors. Contract awarded to the Nanticoke Const. Co., Nanticoke, Pa.

Residence (alts. and add.), West Bell Mills Road, Chestnut Hill, Pa., \$14,000. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Daniel H. Farr, 1626 Walnut street, Philadelphia. Stone, hollow tile, frame and plaster, 2 stories (finished hardware reserved), vapor vacuum heating, electric lighting, tile and marble work, tin roof, cement and pine floors, metal lath. Contract awarded to Elfirth & Co., 1633 Ranstead street, Philadelphia.

Residence (alt. and add.), 510 Cattell street, Easton, Pa., \$1,500. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, George R. Elder, on premises. Stone and brick, 2 stories (plumbing and heating reserved), oak, pine and cement floors, electric lighting, tile work, metal lath. Contract awarded to C. D. Stewart Const. Co., Easton, Pa.

Warehouse, Shamokin, Pa., \$15,000. Architect, A. H. Lee, Shamokin, Pa. Owners, W. C. Haek & Sons, Shamokin, Pa. Brick and concrete, 4 stories, 95x25 feet, slag roof, electric lighting, wood floors, elevators. Contract awarded to Rights Bros., Shamokin, Pa.

Webster Building (add.), Williamsport, Pa. Architect, Arthur F. Rainhard, Masonic Temple, Williamsport, Pa. Owners, School Board of Williamsport, Williamsport, Pa. Brick, 2 stories, 16x25 feet and 35x55 feet, slate roof, electric lighting, wood floors, metal lath. Contract awarded to Crandall Bros., Williamsport, Pa.

Silk Mill, Williamsport, Pa. Architect, Arthur F. Rainhard, Masonic Temple, Williamsport, Pa. Owners, Williamsport Silk Co., Williamsport, Pa. Brick, 2 stories, 50x100 feet, slag roof, steam heating, electric lighting, tile work, rolled steel sash, wood floors. Contract awarded to W. S. Kimball, Williamsport, Pa.

Store and Garage Building, Shamokin, Pa. Architect, W. H. Lee, Shamokin, Pa. Owner, J. W. Maus, Shamokin, Pa. Brick, 2 stories, 50x160 feet, concrete roof, steam heating, electric lighting, concrete floors, fire doors, metal lath, elevators, roof ventilators, gasoline storage. Contract awarded to Shamokin Lumber Co., Shamokin, Pa.

Factory (add.), Williamsport, Pa. Architect, J. J. Litzelman, Williamsport, Pa. Owners, Valley Iron Works, Williamsport, Pa. Brick and mill construction, 2 stories, 30x60 feet, slag roof, electric lighting, pine floors. Contract awarded to J. V. Bennett, Williamsport, Pa.

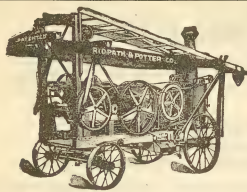
School House (add.), Athens, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Athens School Board, Athens, Pa. Reinforced concrete and brick, 2 stories, 125x70 feet (heating, ventilating, plumbing, wiring, fixtures, hardwood floors and vault door reserved), concrete floors, hollow tile, metal lath, tile work. Contract awarded to W. B. Richards, Wilkes-Barre, Pa.

Bridges (extensions), Main Line, north of Pottstown, Pa. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel, extensions to Arch at Brewery and Manatawny Creek. Contract awarded to Brown King Const. Co., Commercial Trust Building.

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NEW JERSEY Construction News

Atlantic Biltmore Hotel, Mississippi avenue, Atlantic City, N. J. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York City. Owners, Bowman, Herr & Morgan Hotel Corp., 2515 Boardwalk, Atlantic City, N. J. Brick and steel, 500 rooms, size of lot 325x615 feet. Plans in progress. Will take bids in about one month.

Atlantic Pacific Hotel, Georgia avenue, Atlantic City, N. J. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York City. Owners, Bowman, Herr & Morgan Hotels Corp., 2515 Boardwalk, Atlantic City, N. J. Brick and steel, 1,000 rooms. Plans in progress.

Atlantic Commodore Hotel, Missouri avenue, Atlantic City, N. J. Architects, Warren & Wetmore, 16 East Forty-seventh street, New York City. Owners, Bowman, Herr & Morgan Hotels Corp., 2515 Boardwalk, Atlantic City, N. J. Brick and steel, 1,500 rooms. Plans in progress.

Garage and Apartment, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Brick, 2 stories, 175x40 feet, slag roof, hot water heating, electric lighting, tile work, hollow metal skylights, concrete floors, gasoline storage system. Architect has received bids.

Church, Carney's Point, N. J. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Union Presbyterian Church, Carney's Point, N. J. Hollow tile and stucco, 1 story and basement, 40x60 feet, slate roof, steam heating, electric lighting, pine floors. Plans in progress. Ready for bids in two weeks.

Residence (alt. and add.), near Sommer-

ville, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, William Calloway, on premises. Frame, 2½ stories, shingle roof, plumbing, electric lighting, pine floors. Plans in progress.

Residence (alt. and add.), near Somerville, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Charles Worrall, on premises. Frame, 2½ stories, shingle roof, pine floors, electric lighting, plumbing. Plans in progress.

Stores (4), Apartment (1) and Manufacturing Building, Paulsboro, N. J. Architect, Frank V. Greenstein, Empire Building, Philadelphia. Owners, L. Gross & Co., 7120 Woodland avenue, Philadelphia. Brick, 2 stories, 96x73 feet, slag roof, hot water, hot air and steam heating, electric lighting, tile work, pine floors. Plans in progress.

Stores (10) and alteration to Apartment House, Vineland, N. J. Architect, Raymond A. Walls, Real Estate Trust Building, Philadelphia. Owners, Food Arcade Corp., Vineland, N. J. Stores, 1 story, hollow tile or cement block and stucco, 120x50 feet; apartment house, 3 stories, slag and asbestos shingle roof. Plans in progress.

Library Building, Haddonfield, N. J., \$25,000. Architect, Wm. C. Pritchett, 416 Walnut street, Philadelphia. Owners, Haddonfield Library. Wm. G. Moore, chairman Building Committee, Drexel Building, Philadelphia. Brick, marble or terra cotta trim (fireproof), 1 story and basement, 60x54 feet, slag roof, steam heating, electric lighting, pine and cement floors, tile and marble work, metal lath. Plans completed. Architect will take bids in a few days.

School, Milford, N. J., \$16,000. Architect,

Harry Hill, 40 East State street, Trenton, N. J. Owners, School Board of Milford, Frank P. Vanderbilt, District Clerk, Milford, N. J. Brick, 1 story, 4 rooms, slate roof, steam heating and ventilating, yellow pine floors. Plans in progress.

Fire House, Trenton, N. J. Architect, W. P. Endebrook, American Mechanics, Building, Trenton, N. J. Owners, Department of Public Safety, Trenton, N. J. Brick, 2 stories. Plans in progress.

Bank, Trenton, N. J. Architects, Dennison & Hiron, New York City, and Kleeman & Fowler, associated, Trenton, N. J. Owners, Trenton Bank, Trenton, N. J. Marble, 1 story, 65x100 feet, tile and slag roof, concrete floors, electric lighting, tile and marble work, hollow metal skylights, bank fixtures, concrete floors, waterproofing, ornamental iron work. Owners taking bids, due July 5th. Burton & Burton, American Mechanics' Building, and S. W. Mather & Son, Greenwood and Canal streets, Trenton, N. J., are figuring.

Home (alt.), Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Home for Aged, Municipal Colony, Trenton, N. J. Consists of general interior alterations, cement floors, electric lighting, plumbing, carpenter work. Architects taking bids. S. W. Mather & Son, Greenwood and Canal streets, Trenton, N. J., are figuring.

Workshop, Bordentown, N. J., \$12,000. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, School for Colored Youth, Bordentown, N. J. Brick and concrete, 1 story, 42x110 feet, slag roof, steam heating, electric lighting, rolled steel sash, concrete floors, hollow tile, roof ventilators. Lowest bidders, Burton & Burton, American Mechanics' Building, Trenton, N. J.

New Jersey Contracts Awarded

Building No. 17 B (alts.), Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, the Victor Talking Machine Co., Camden, N. J. Brick, steel and reinforced concrete, 1 story, 154x27 feet, slag roof (heating and lighting reserved), pine and cement floors, hollow metal sash, rolled steel skylights, fire doors and kalamein doors, iron stairs, ornamental iron work, metal lath, safety treads, waterproofing and dampproofing. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

School (alt. and add.), Second avenue and Benner street, Highland Park, N. J., \$25,000. Architect, Alex. Merchant, 363 George street, New Brunswick, N. J. Owners, the Board of Education, Borough of Highland Park, Middlesex County, N. J. Brick, hollow tile and terra cotta, 2 stories, 34x79 feet, slag roof, concrete and composition floors (heating, plumbing and lighting reserved), kalamein doors, fire escapes, iron stairs, metal weatherstrips, metal ceilings, waterproofing and dampproofing. Contract awarded to Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

Residence, Riverton, N. J. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Robert Robertson, 5738 Pine street, Philadelphia. Frame, 2½ stories, 37x37 feet, shingle roof, pine floors, electric lighting, tile work, metal lath (plumbing and heating reserved). Contract awarded to Hugh B. Miller, Edgewater Park, N. J.

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Garage, Atlantic City, N. J., \$3,000. Architect, private plans. Owner's name withheld. Brick, 1 story, 40x50 feet, slag and rubberoid roof, cement floors, electric lighting, gasoline storage system. Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City, N. J.

Cantonment Sheds (32), Cape May, N. J. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Frame, 1 story, felt roofs, steam heating, electric lighting, wood floors. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Miscellaneous Construction News

Bungalow, Hill Crest, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, A. P. Stevenson, King street, Wilmington, Del. Frame, 1½ stories, 32x55 feet, shingle roof, yellow pine floors. Architect taking bids, due as soon as possible. E. G. Lysander, Charles Brice, and Charles H. Tindall & Son, all of Wilmington, Del., are figuring.

Office Building, Claymont, Del. Architect, private plans. Owners, Worth Steel Co., Claymont, Del. Brick and steel, 2 stories, 184x50 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, hollow metal sash and skylights, fire doors, metal lath, elevators, waterproofing, ornamental iron work. Owners taking bids, due June 28th. Warren-Moore & Co., Commercial Trust Building, Philadelphia, are figuring.

Power Plant, Garrett, Ind. Architect, M. A. Long, Baltimore, Md. Owners, Baltimore & Ohio Railroad Co., Baltimore, Md. Brick, steel and reinforced concrete, 1 story, 31x80 feet, slag and tile roof (lighting and steel work, hollow metal skylights, metal lath, roof ventilators. Owners, care of M. A. Long, Baltimore, Md., taking bids, due July 1st. Roydhouse-Arey Co., 112 North Broad street, Philadelphia, are figuring.

Bancroft Hall (extension), Annapolis, Md. Architect, private plans. Owners, U. S. Government, care of Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, granite and hollow tile, 4 stories, 2 wings, 387x53 feet, 2 wings 86x45 feet, addition to mess hall, 1 story, 75x77 feet, and 1 story, 48x158 feet, composition, slate and copper roofs, composition, tile and wood floors, vacuum heating, tile and marble work, hollow metal skylights, hollow metal doors, ornamental iron work, metal lath, elevators, safety treads, waterproofing (electric work, separate bids). Owners taking bids, due July 9th. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Factory, Hunter Point avenue and School street, Long Island, New York City. Architects, Ballinger & Perrot, 1328 Broadway, New York City. Owners, Patterson Sargent Co., 8 Jay street, New York City. Brick and reinforced concrete, 1 and 4 stories, 161x110 feet and 216x61 feet, slag roof, cement and asphalt floors, rolled steel sash, hollow metal skylights, fire and kalamein doors, safety treads, waterproofing, wire work, ornamental iron work (heating, plumbing, lighting and elevators reserved). Architects taking bids, due June 27th. F. W. Mark Const. Co., Finance Building, Philadelphia, are figuring.

Chemical Laboratory, New York City. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Owners, New York University, 32 Waverly Place, New York City. Brick, reinforced concrete and stone, 1 story, 60x105 feet, tin and slag roof, steam heating, electric lighting, hollow metal skylights, metal lath, roof ventilators, ornamental iron work. Architects taking bids, due June 27th. Jacob Myers

& Sons Co., Witherspoon Building, Philadelphia, are figuring.

Service Station, Brooklyn, N. Y. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Brick, steel and terra cotta, 2 or 1 story. Plans in progress.

Residence, Vausey and Railroad avenues, Milford, Del. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, I. D. Short, Milford, Del. Brick, 2½ stories, 50x35 feet, slate roof, vapor vacuum heating, electric lighting, tile work, hardwood floors, metal lath. Plans completed. Owner taking bids.

Isherwood Hall (extension), Navy Academy, Annapolis, Md. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, stone, steel and reinforced concrete, 3 stories, 180x55 feet and 50x43 feet, slate roof, steam heating, electric lighting, marble and terrazzo work, rolled steel and sash, hollow metal skylights and doors, wood, composition and cement floors, hollow tile, metal lath, safety treads, waterproofing. Owners taking bids, due July 9th at 11 A. M. Irwin & Leighton, 126 North Twelfth street, Philadelphia, are figuring.

Residence (alt.), Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, Mrs. George Chambers, Wilmington, Del. Consists of general interior and exterior alterations. Contract awarded to Edw. Johnson & Sons, Wilmington, Del.

Office Building, 1112-14 King street, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, George Lodge, Wilmington, Del. Brick and marble, 3 stories, 50x100 feet, tin roof, yellow pine and maple floors, steam heating, electric lighting, tile floors, fire escapes. Contract awarded to Charles H. Tindall & Son, Wilmington, Del.

Warehouse, Fort street and West Jefferson avenue, at Fourteenth street, Detroit, Mich. Architects, Smith, Huischman & Grylls, 710 Washington Arcade, Detroit, Mich. Owners, Cowley Milner Co., Detroit, Mich. Reinforced concrete and brick, 7 stories, 276x167 feet, slag roof, maple and cement floors (heating, plumbing and lighting reserved), rolled steel sash, fire doors and hollow metal doors, iron stairs, ornamental iron work, metal lath, elevators, waterproofing and dampproofing. Architects have received bids.

Alterations and Additions

Dwelling, 2107 Master street, \$300. W. F. Jones (O), on premises. J. F. Lrent (C), 2041 Master street. Brick, 1 story, 10x12 feet, slag roof.

Home for Infants, 4618 Westminster avenue, \$1,000. Philadelphia Home for Infants (O), on premises. Dow Wire and Iron Works (C), Louisville, Ky. Fire escape.

Garage, Twenty-third and Washington avenue, \$680. Phosphor Bronze (O), 243 South Tenth street. Alex. Chambley (C), 243 South Tenth street. Alterations, new doorway.

Dwelling, York Road, south of Oak Lane, \$3,000. Mrs. Alice Betts (O), on premises. Christian Dear's Sons (C), 227 Northeast Boulevard. Move three-story frame building back 20 feet.

Dwelling, Lawrence and Olney avenue, \$1,500. W. E. Ferguson (O), 17 Grange avenue. Christian Dear's Sons (C), 227 Northeast Boulevard. Move and turn two-story brick dwelling.

Store and Dwelling, 2447 Ridge avenue, \$475. George W. Bridgeman (O), on premises. Frank I. Wintz (C), 1618 North Twenty-seventh street. Flush bulk and alterations.

Dwelling, 1522 Columbia avenue, \$900. H. Dehies (O), on premises. D. J. McNamee (C), 1621 North Fifteenth street. Alterations.

Warehouse, 969-71-73-75 North Second st., \$75,000. American Store Co. (O), Fourth and Noble streets. Harry Gill, Jr., 2515 Germantown avenue. Brick, third, fourth and fifth story addition, 80x120 feet.

Dwelling, 151 West Highland street, \$385. H. H. Houston (O), Chestnut Hill. James Spear Co. (C), 1823 Market street. New warm air heater.

Store, 4361 Main street, Manayunk, \$450. Gates Candy Co. (O), 107 West Norris street. Davis & Clayton (C), 1841 Germantown avenue. New flush bulk.

Dwelling, 4805 Springfield avenue, \$9,500. C. V. Bergh (O), on premises. Davis & Clayton (C), 1841 Ginnodo street. Brick, 2 stories, 26x25 feet, tin roof.

Dwelling, 152 Apsley street, \$400. William Ludascher (O), on premises. Harry Evans (C), 1417 Warnock street. Brick, 1 story, 14x18 feet, slag roof.

Garage, Allegheny and Broad street, \$500. George J. Crumie (O), 1344 West Westmoreland street. H. P. Schneider (C), 3713 York Road. New truss to support second floor.

Power House, 4709 Lancaster avenue, \$500. E. W. Woolman (O), on premises. B. F. Hart, Jr. (C), 50 Church street, New York. Steel structure over roofs.

Garage, 5426 Wayne avenue, \$1,000. H. A. Romberger (O). F. T. Mercer Co. (C), 1706 DeLancey street. New heater and alteration.

Garage, Bell Mill Road, Chestnut Hill, \$650. D. H. Farr (O), Chestnut Hill, Pa. Elfeth & Co. (C), 1633 Ranstead street. New brick wall around heater room.

Dwelling, Bell Mill Road, Chestnut Hill, \$11,350. D. H. Farr (O), Chestnut Hill, Pa. Elfeth & Co. (C), 1633 Ranstead street. Stone, 2 stories, 10x14 feet, and alterations.

Dwelling, 1500 North Gratz street, \$2,000. H. A. Mathaus (O), 6124 Green street. A. W. Spencer (C), 5449 North Twelfth street. New partitions and windows.

Work Shop, 3216 North Lee street, \$1,000. W. Saunders (O), 3219 North Front street. J. W. Mortimer (C), 3024 E street. Brick, 1 story, 15x28 feet, slag roof.

Dwelling, Sixty-third and Christian streets, \$800. E. V. Clark (O), 6239 Christian street. F. S. Searles (C), 5142 Thompson street. New porch, 8x47 feet, tile and tin roof, cement floor.

Dwelling, 1518-20 Waverly street, \$8,000. Dr. M. W. Zimmerman (O), 1522 Locust street. T. C. Trafford (C), 1613 Sansom street. Brick, 3 stories, 20x20 feet. Alterations.

Dwelling, 6515 Lincoln Drive, \$475. Mrs. H. B. Plumer (O), on premises. James Spear Co. (C), 1823 Market street. New heater.

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Saloon and Dwelling, Emerald and York, \$450. Dr. C. Schaeffer (O), 117 South Twentieth street. Raith Const. Co. (C), 302 North Master street. Alterations.

Dwelling, Palmetto street, Beemer, \$1,500. H. J. Sourbier (O), 2541 North Gratz street. W. H. Campbell (C). Frame, 1 story, 18x30 feet, shingle roof.

Factory, Twenty-third and Market streets, \$400. Vim Auto Co. (O), on premises. T. Cusick Co. (C), 213 South Tenth street. Alterations.

Store, 2205-7 North Front street, \$970. C. Fluiht (O), on premises. J. Bugger (C), 2124 East Cumberland street. New steam heater.

Factory, 148 North Fifth street, \$750. M. Regenspruger (O), on premises. B. Braunstein (C), 325 Fitzwater street. New wall, brick.

Warehouse, 1135 Colona street, \$5,000. A. Heiberman (O), 2229 North Twelfth street. Burd P. Evans Co. (C), Thirteenth and Wallace streets. Brick, second and third story, 16x72 feet, slag roof.

Garage and Storage, Fifty-sixth and Chestnut streets, \$18,000. Wager & Karpeles (O), 28 North Fifty-fifth street. J. D. Fisher (C), 5424 Thompson street. Brick, 2 stories front, 92x36 feet, and 1 story rear, 92x83 feet, slag roof.

Dwelling, 2015 South Fifth street, \$300. M. Green (O and C), 417 Emely street. Remove bulk and replace with brick wall.

Dwelling, 6101 Reedland street, \$700. H. B. Dunbrey (O), on premises. J. Gorchow (C), 4116 Girard avenue. Rebuild gable brick wall.

Dwelling, Broad street and Oak Lane avenue, \$750. R. Windisch (O), on premises. Ed. B. McCall (C), Sixty-fifth and Park avenue. Alteration and repairs.

Residence, 106 North Thirty-fourth street, \$1,300. Mrs. M. T. Zeckiner (O), on premises. Kriebel & Co. (C), 826 Spring Garden street. Install vapor steam heating.

Factory, Sixteenth and Hamilton streets, \$500. William Sellers & Co., Inc. (O and C), 1600 Hamilton street. Iron on iron frame, 14x20 feet, third story.

Factory, Buttonwood, Fifth and Sixth streets, \$15,000. D. W. Van Fine (O), 1936 Park avenue. W. Easterbrook (C), 146 North Fourth street. Brick, 1 story, 22x22 feet; fire tower addition, 3 stories, 10x12 feet; elevator shaft, 3 stories, 10x6 feet.

Factory, Jasper and Ontario streets, \$750. Bush & Ferry (O), on premises. R. Beatty & Bro. (C), 2321 East Fletcher street. Brick, 1 story, 12x38 feet, slag roof.

Bank, Fortieth and Lancaster avenue, \$10,000. West Philadelphia Trust Co. (O), on premises. Metzger & Fisher (C), Otis Building. New Mezzanine floor, 28x38 feet, new partitions and elevators.

Substation, Schuylkill avenue and Christian street, \$60,000. Philadelphia Electric Co. (O), 1000 Chestnut street. John R. Wiggins Co. Inc. (C), Otis Building. Brick and steel, 1 story, 54x64 feet, slag roof.

Store and Dwelling, 4253 Lancaster avenue, \$300. Harry Young (O), on premises. Harry Alesker (C), 814 North Sixth street. New brick work.

Hotel, Second and Noble streets, \$925.00. Pennsylvania Company for Insurance (O), 517 Chestnut street. John Duncan (C), 920 Walnut street. Repair roof damaged by fire.

Dwelling, 735 North Corinthian avenue, \$800. M. Merriek (O), on premises. H. T. Campbell (C), Twenty-ninth and Stiles sts. Hot water heating.

Warehouse, 1131 Vine street, \$1,500. J. Jo-

seph Stratton (O), 505 Chestnut street. Frank Hall (C), Seventy-first and Greenway avenue. Fire damage repairs.

Dwelling, School Lane avenue, \$3,000. Walter E. Knife (O), 220 West Cheltenham avenue, Germantown. Sam Harting (C), 20 East Johnson street, Germantown. Brick, 2 stories, 14x16 feet, slate roof, interior alterations.

Dwelling, 671 North Fifteenth street, \$1,500. Ed. Benfield (O), 680 North Fifteenth street. H. B. Boorse (C), 665 North Fifteenth street. Brick, 1 story, side addition, 6x22 feet, slag roof, and bulk.

Stable, Thirty-third and Master streets, \$1,000. A. M. Finkbeines Co. (O), on premises. Metzger & Fisher (C), Otis Building. Brick, 1 story addition, 13x22 feet, cement floor, slag roof.

Dwelling, Linden avenue and Forty-first street, \$1,200. H. Greenwood (O and C), Kensington avenue and Clearfield street. Stone, 1 story, 24x32 feet, slate roof.

Wagon Shed, 1430 Montgomery avenue, \$500. J. F. Bets Est. (O), Land Title Building. John McShain (C), 1610 North street. Fire repairs.

Factory, 4317 Criscom street, \$1,000. John Sidebotham (O), on premises. M. Heas (C), Penn street, Frankford. Brick elevator shaft.

Factory, Ninth and Ontario streets, \$2,500. Surpass Leather Co. (O), Ninth and Westmoreland streets. George Kessler Const. Co. (C), 931 Drexel Building. New floor on second floor, 16x126 feet.

Dwelling, 700 North Forty-second street, \$300. J. Hardee (O), on premises. William S. Gove (C), 12 North Forty-first street. New bulk windows.

Store and Dwelling, 1417 Ridge avenue, \$1,550. L. Hackenberg (O), on premises. Sam J. Rea & Son (C), 1608 Fairmount avenue. New bulk window, brick, 1 story, 12x12 feet.

Boiler House, Eleventh and Mifflin streets, \$700. Manchester Laundry Co. (O). Max Kane (C), 871 North Sixth street. Increase the walls of the boiler house 10 to 16 feet high, slag roof.

Stores and Dwellings (2), 503-505 Spruce street, \$4,050. R. J. Harrison (O), 2017 South Broad street. Jacob Bender (C), 1817 South Fourth street. Flush bulks and plumbing and interior alterations.

Stable, 215-19 Fitzwater street, \$400. John Goodman (O and C), 217 Fitzwater street. Fire repairs.

Store and Dwelling, 1421 Columbia avenue, \$350. Henry Howell (O), on premises. E. E. Hollenback (C), 1804 Brandywine street. New cellarway.

Factory, Nineteenth and Hamilton streets, \$7,000. Graham Estate (O), northeast corner of Nineteenth and Hamilton streets. John N. Gill & Co. (C), Otis Building. Alterations.

Dwelling, 5115 Wynnefield avenue, \$300. S. Yellin (O), 3125 Montgomery avenue. Joseph Fiskaer (C), 1646 North Eighth street. Brick, 1 story, 10x6 feet.

Garage, 601 Callowhill street, \$400. F. B. Roth (O), on premises. E. H. Keafer & Son (C), 1321 Rodman street. Iron on iron, 1 story, 11x16 feet.

Permits for New Buildings

Garage, 6384 Sherwood Road, \$650. Dr. C. R. Wattson (O), on premises. A. G. Smith (C), 2135 North Sixty-third street. Brick, 1 story, 12x18 feet, shingle roof.

Warehouse, Snyder avenue and Swanson,

\$4,500. Publicker Ward Dist. Co. (O), on premises. Joseph Levin Co. (C), 1530 South Sixth street. Brick, 1 story, 51x35 feet, slag roof.

Garage, Westview street and Wisseh avenue, \$3,400. F. Royal Harmett (O), 51 West Upsal street, Germantown. Harry Murphy (C), Willow Grove. Stone, 2 stories, 28x27 feet, shingle roof.

Garage, Irving and Fortieth street, \$1,500. C. Gallagher (O and C), 610 South Sixtieth street. Brick, 1 story, 40x20 feet, slag roof.

Garage, 203 East Mermaid Lane, \$325. J. McFarland (O), on premises. M. Morster Co. (C), 3931 North Fifth street. Iron on iron, 1 story, 18x16 feet.

Shop, 232 North Twenty-second street, \$2,000. E. Harris (O and C), 2214 Chestnut street. Brick, 2 stories, 20x38 feet, slag roof.

Dwellings (26), 900 North Sixty-fourth street, \$168,000. Moss & Taylor (O and C), 560 North Fifty-eighth street. Brick and stone, 3 stories, 17x48 feet, tin and slate roof, central plant heat.

Garage, 314-16-18 South Fourth street, \$20,000. Bankers & Merchants' Garage Co. (O), 254 South Second street. H. P. Schneider (C), 3713 York Road. Brick, 1 story, 66x182 feet, slag roof, steam heating.

Garage, 3942 Frankford avenue, \$365. Electric Dye Works (O). M. Morster & Co. (C), 3931 North Fifth street. Iron on iron, 1 story, 16x20 feet.

Garage, 930 Fillmore street, \$500. Robert Grube (O), 932 Fillmore street. John Frothingham (C), 3367 Frankford avenue. Brick, 1 story, 12x18 feet, slate roof.

Sun Parlor, 1011 Fillmore street, \$400. E. W. Scott (O), on premises. John Frothingham (C), 3367 Frankford avenue. Brick piers, tin roof, 14x16 feet.

Dwelling, Fairhill street and Cheltenham avenue, \$8,000. C. E. Lloyd, Jr. (O and C), Oak Lane. Stone first story, hollow tile second story, 27x37 feet. Slate roof, hot water heating.

Dwellings (3), 5005-07-09 Wayne avenue, \$23,880. Mrs. Emma Bishop (O), Seymour street. Charles H. Eckman (C), 2126 North Sixteenth street. Brick, 2 stories, 15x33 feet, slag roof, hot water heating.

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 20, 1917.—Sealed proposals will be opened in this office at 3 P. M., August 9, 1917, for the construction of the United States Post Office at Dubois, Pa. Drawings and specifications may be obtained after July 5, 1917, from the custodian of the site at Dubois, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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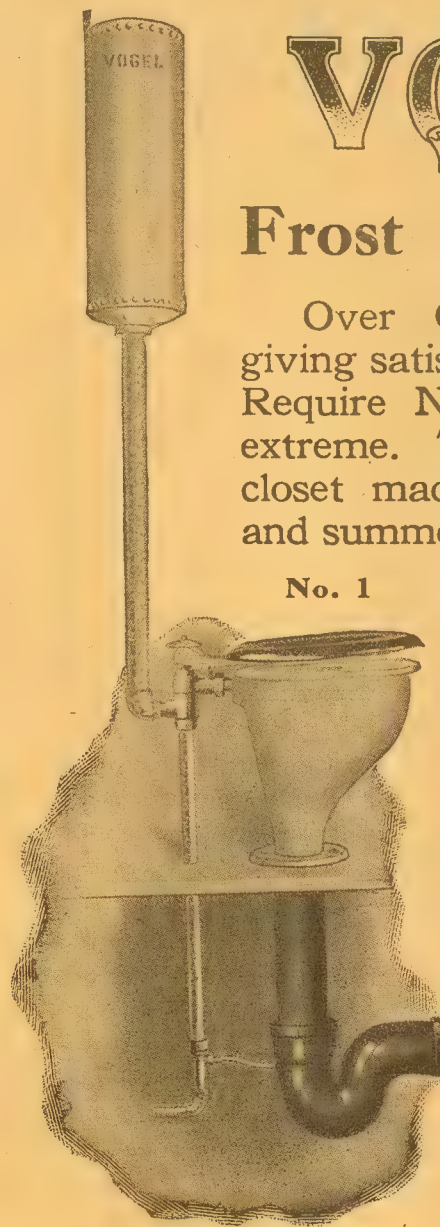
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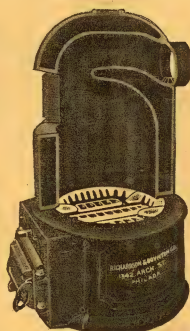
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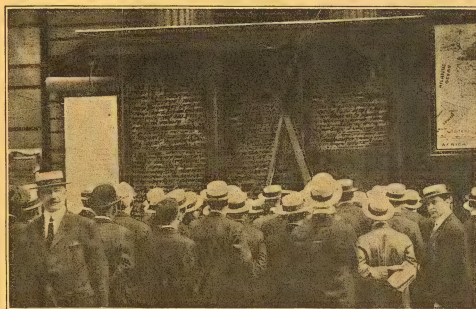


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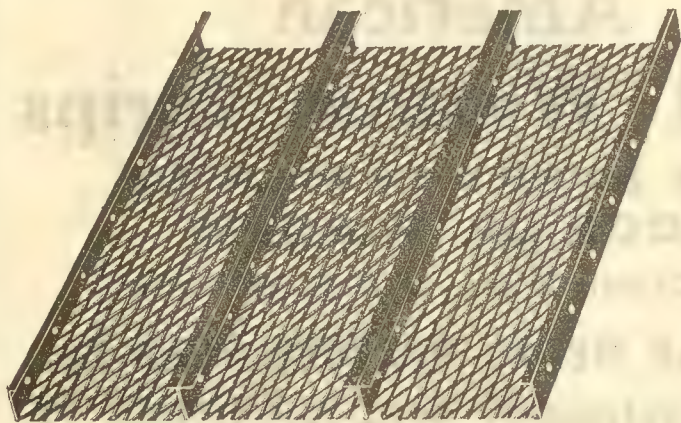
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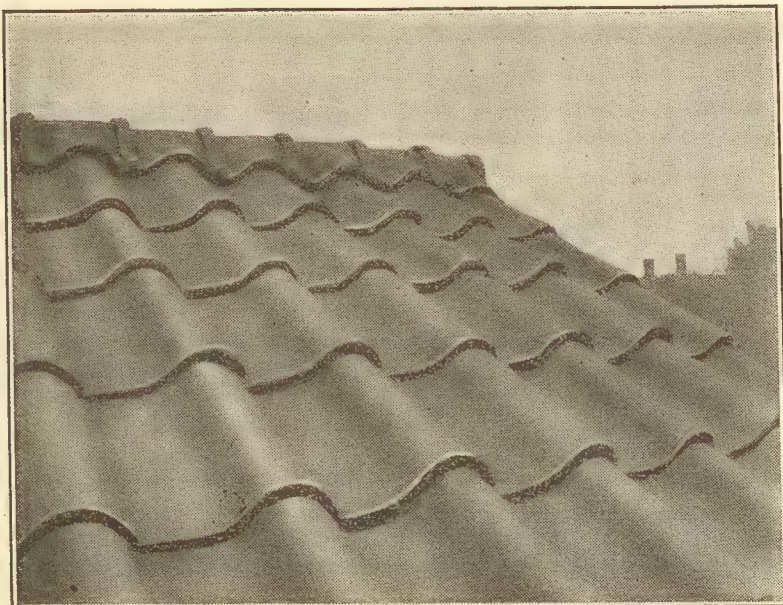
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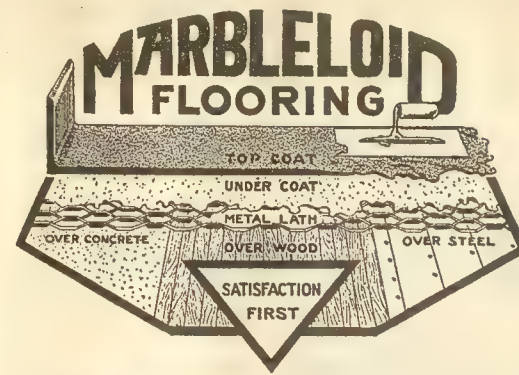
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 27

PHILADELPHIA
July 4, 1917

BUILDERS' GUIDE

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As The Editor Sees It



SWEEPING over the country and from the great lakes to the gulf is a nation-wide "Build Now" movement, the result of a conviction upon the part of men who have given careful study to the situation that nothing is to be gained by waiting for conditions to improve. It seems to be the consensus of expert opinion on the subject that neither material prices nor labor conditions are likely to go back to normal standards. In the circumstances the postponement of activity awaiting a more favorable market represents simply so much time lost. How widespread and general in scope is this "Build Now" movement may be inferred from the subjoined deliverances dealing with various phases of the building situation. The first of the articles quoted is from the *Architect and Engineer*, of California; the second from *The Chicago Tribune* and the third from *The American Architect*, from New York City.

* * *

AMERICANS have a habit of quitting work and crowding around when an accident occurs. The case in point is the world's "accident" in Europe," remarks the *Architect and Engineer*, of San Francisco.

"We are in danger of losing our heads and stopping work while the conflict is on. This would be a serious happening, but happily every American can help to prevent it without adding to the noise and confusion of going to war.

"The only thing necessary is to go quietly on in attending to our own business.

"While our naval and military forces are hastening to the front to destroy agencies and obstacles that seek to impede our growth, it is essential that we redouble our constructive efforts at home.

"We can both build and fight and we ought to seize upon this advantage as the greatest opportunity created by the war.

"Let both public and private useful building construction proceed. Production and handling of building materials and public and private construction work are fundamental industries of the country. Any tendency to suspend or postpone building projects is inconsistent with maintaining our prosperity. The country is prosperous. Building investors should not hesitate to go ahead with their plans. Railroads should spare no effort to supply the building industry with the cars needed to transport materials. Government, State, county and municipal authorities should encourage the continuance of all kinds of building. Road and street improvements in particular should go on unabated. Bad roads and streets are factors of first importance in the present high cost of foodstuffs. Never before was the improvement of highways so essential.

"The lumber, brick, cement, lime,

sand, gravel, stone and other building materials industries are basic. Neither government regulations nor railroad restrictions should be unnecessarily imposed to interfere with them. If any action is taken which results in the prostration of so fundamentally important industries, there is real danger of a surplus unemployed labor, a surplus of railroad cars and a crippling of business that will seriously embarrass the Government in financing the war.

"Let us build while we fight!"

There is the California idea!

* * *

THE Illinois legislature has abandoned its plans for extensive building operations in the State departments and institutions, and with the ear of faith we already hear applause the country over! Bravo! Let cities, commonwealths, and the federal government follow suit!"

"To which impending outbursts we reply," says *The Chicago Tribune* editorially. "Be orthodox, brethren, but don't be more orthodox than his holiness the pope." Paris has not suspended public building operations because of the war. Neither has Berlin. To curtail such operations, if by curtailment you mean putting a check on wild and wanton extravagance, is doubtless advisable. Self-confessed pork barrel expenditures must halt, and there are other pork barrels besides the celebrated cask of iniquity at Washington. Pork kegs, we

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might term them. States and cities have each their own. Away with such! But not with the long projected and long needed improvements that have an incontestable value. Just because we are no longer in a position to throw money about it does not follow that we must scrimp or perish. Neither does it follow that scrimping will prevent our perishing. It may even help us to.

"As we look at it, a quietus clapped on legitimate public building enterprises would rank with the mania for private economy that is now impoverishing milliners and dressmakers and many a distressed tailor. Fine—is it not?—to see her ladyship economize by starving her modiste! Inspiring to see her husband economize by skinning his tailor! For that is what it comes to. And they For that is what it comes to. And they

"Patriotism! Ye gods and little fishes! One plain duty of patriotism in war time is to keep the pot a-boiling. Waste is wicked, but legitimate spending a virtue. Within the bounds of reason, go on spending. It promotes "business as usual." It steadies the State. And what applies to the individual applies equally to municipalities, commonwealths, and the federal government. Let there be no havoc wrought in the building trade and its half dozen allied industries in the name of patriotic economy. To put a peremptory quietus on legitimate and sorely needed public building projects is to sow disorder, unrest, and distress at the very time when such calamities would work a maximum of mischief. Let us keep our hair on. In avoiding waste, let us also avoid the economy that in the end spells extravagance."

* * *

UNDER the head of "The Building Situation" the *American Architect*, of New York City, observes:

"Building operations throughout the country continue with but little abatement, the first quarter of this year showing a loss of only a fraction of one per cent. as compared with 1916, while 1916 displayed a great gain over 1915. Hoggson Brothers, the New York and Chicago builders, announce that they started active operations in April on five buildings for banks alone in different sections.

"The impression is gaining strength that while present costs of materials entering into the construction of buildings appear to be high, the prospects are for prices to go to still higher levels. The *American Architect* points out that inasmuch as a dollar will buy only three-fourths as much of any commodity as it would three years ago, the cost of building is in practically the same ratio to former costs.

"It is possible to enumerate one reason after another in favor of the con-

tention that present prices are low—not high," declares that paper. "If owners can be made to see that the really pertinent comparisons of costs are with the future rather than the past, building cannot fail to take on greater activity. Viewed in this light, present prices for building materials actually appear to be bargain prices.

"Authorities for the most part seem agreed that the chances for building material prices to take a drop are quite remote, whether hostilities continue for some time or whether peace should come within the near future. It is argued that the after-war demand on our industrial resources will be infinitely greater than they have been. France has just recently closed a contract involving two hundred million francs, most of which sum is to be spent in America for building materials to be used in the reconstruction of important buildings in cities in the vicinity of Verdun, the Argonne and the heights of the Meuse.

* * *

THE danger of a cessation of building activities does not lie so much in the impression that prices are too high as it does in an attempt to carry the economy idea to harmful lengths. Nothing could be more injurious than indiscriminate delaying of plans for building. This would create an industrial situation that would be far-reaching in its evil effects.

"The government is actually carrying on a campaign against the holding up of industrial activities, Howard E. Coffin, of the advisory commission of the Council of National Defense, declaring that "waste is bad, but an indiscriminating economy is worse. Unemployment and closed factories brought about through fitful and ill-advised campaigns for public and private economy, will prove a veritable foundation of quicksand for the serious work we have on hand. We need prosperity in war time even more than when we are at peace. Business depressions always are bad, but doubly so when we have a fight on our hands. The declaration of war can have no real evil effect on business. What bad effects are apparent are purely psychological and largely of our own foolish making. For our markets are the same in April as they are in March. We need more business, not less. There is real danger in hysteria. "Indiscriminate economy would be ruinous. Now is the time to open the throttle."

"Two years ago the prospective builder was urged to "Build Now" to secure the advantage of low prices and to give employment to idle labor. To-day he is urged to "Build Now" so as to keep skilled labor employed, to keep the wheels of industrial activity going, and to take advantage of present prices, lest he be forced to pay even more if he delays."

REVIEWING current conditions in the building field a writer for the New York *Real Estate Record* sums up the situation as follows:

"Prospects are brighter in the building field to-day than for a long period. Last week there were indications that a renewal of structural activity was imminent and the conditions during the past few days have confirmed them. A considerable amount of new work has come to light and this has created a feeling of optimism throughout the industry. There is little doubt but that the influence of the immense amount of Government construction now in progress has had much to do with the improved general condition. Work of this character is looming up as the most important factor in the building industry. The contracts for the erection of army and navy cantonments, hospitals, storehouses and other military projects are being taken by some of the largest and most reputable concerns in the country and are attracting sub-contractors of a high calibre. The Thompson-Starret Company, Geo. A. Fuller Company, Turner Construction Company, Fred T. Ley & Company and James Stewart & Company are among the prominent general contractors that already have important contracts under way for the Federal authorities. When firms of the standing of these undertake work of this character it will not be long before a substantial number of smaller concerns will recognize the value of competing for this type of work. The effect of the Government work on the general building business has been excellent and has greatly assisted in stabilizing affairs in the industry.

* * *

PPRIVATE construction is apparently in a better condition than it has been for some weeks. During the past week a number of large and noteworthy projects have been announced for early action. One of the features of the revised status of the structural industry is that the work now in prospect is far more general in character than it has been, indicating that much of the recent depression is a thing of the past, and that builders are preparing to start their long contemplated structures. Only a few weeks ago the major portion of the work under way was confined to commercial and manufacturing structures, for which the demand was imperative, with here and there a costly residence, or a building of some other nature, but designed for private occupancy. Apartment house construction had practically ceased and there was only a small number of speculatively built dwellings in active construction or in prospect. This week the outlook has become quite different. The new operations are far more varied in

character and their volume indicates that large sums will be expended in construction work throughout the summer and early autumn. Steel frame construction is practically the only phase of construction work that has not felt the improvement in the situation. There is a strong movement on foot tending toward the elimination of structural steel wherever possible in favor of brick or reinforced concrete construction. The high cost of fabricated steel coupled with the great difficulties encountered in obtaining reasonably prompt deliveries have effected the erection of structures dependent upon a framework of steel. Other types of structural work are reflecting the improved conditions and better times are being looked for by all interested in the building industry."

* * *

CURRENT times are pregnant with possibilities for the property owner and speculative builder who is brave enough to combat the conditions effecting general building activity and start the construction of new structures of a type for which there is an insistent demand. The investor, who in spite of the high prices of building commodities will erect modern multi-

family dwellings, for moderate rentals will reap large benefits from his foresight. The extremely low land values that still maintain in certain sections of greater New York will more than offset the additional cost of construction entailed. Rentals are high and with a tendency toward further increases. One of the peculiar facts in connection with the foregoing is that the low land values are directly in line with the movement for residential expansion and in districts in which a large part of the housing developments is expected. Sections of Brooklyn and Queens are ripe for improvements of this character and there is a steadily growing demand for living accommodations in modern buildings and at rentals which, while not excessive, will allow a fair margin of profit to the builder or investor regardless of high cost of construction."

"There has been no material change in the prices of building commodities. The market seems to be rapidly stabilizing and there is no evident desire on the part of manufacturers and dealers to make further advances unless circumstances absolutely compel them."

The moral of which is Build—Build Now!

EDITORIAL NOTES

B. F. Affleck was re-elected president and **T. J. Hyman**, secretary and treasurer, both of Chicago, at the annual meeting of the Universal Portland Cement Company, held at Gary, Ind., on June 13. The company is a subsidiary of the United States Steel Corporation and has offices in Chicago, Pittsburgh, Minneapolis and Duluth, and plants at Buffington, Ind., Universal, Pa., and Steelton, Minn.

* * *

The high prices for all kinds and grades of lumber do not seem to be greatly effecting the market as the demand is holding strong and in some quarters is exceeding the supply. All lumber interests, manufacturers, dealers and consumers are intensely interested in the requirements of the Government for the necessary lumber for the construction of the proposed cantonments and other measures for the national defense. From estimates prepared by the Council of National Defense the amount of lumber to be taken out of the market for these purposes will be in the neighborhood of two million board feet. This amount will be spread over a period of twelve months and will come from all quarters of the country. The amount represents approximately 5 per cent. of the year's output, and while it seems colossal, will actually not affect the market to a great extent. Under the circumstances there need be no fear on the part of the large users of lumber that a full

supply of sizes and grades will not be available for all purposes, although unless the transportation situation is improved there might possibly be some difficulty in having the supply brought to the market in a reasonable time. The forest resources are sufficient for all demands and the only question involved is a present doubt as to the producing capacity.

* * *

Alfonso Del Guercio, architect, has moved his office from 222 Washington street, Newark, N. J., to 800 Broad street, in the same city.

* * *

The producers and dealers of building stone are in relatively better position at the present writing than are the manufacturers of many other structural materials. There is a fair amount of practically all kinds of building stone available and, while there is some difficulty in obtaining prompt deliveries on account of the transportation problems, the conditions in this market are an improvement over those experienced in other lines. The price of building stone has not advanced in comparison with the increases in other structural commodities.

* * *

The records of the Bridge Builders and Structural Society, as collected by its secretary, show that during the month of May,

1917, 56½ per cent. of the entire capacity of the bridge and structural shops of the country was contracted for.

* * *

The long-pending suit of **W. H. Pearce & Co., Chicago**, manufacturers of the Crescent line of heating apparatus, which suit was filed against the Gordon Company and Sears, Roebuck & Co., of Chicago, has been adjudicated in the United States Federal Court in Chicago and the Pearce patents have been declared valid. It appeared from the evidence furnished by W. H. Pearce & Co. that Sears, Roebuck & Co. manufactured the infringements through the Robert Gordon Company, steam fitting contractors. The Gordon Company furnished sketches of the apparatus to the Crane Company, which, it was testified, with full knowledge of the fact that the Pearce apparatus was patented, constructed the infringing apparatus which the Robert Gordon Company installed at the plant of Sears, Roebuck & Co., in Chicago. The defendant's testimony endeavored to show priority of invention and prior use. The jury awarded to W. H. Pearce & Co. the full amount of their claims, together with costs.

* * *

Phillips, Fidler & Beck, architects, will discontinue their offices in the Chadokoin Building, Jamestown, N. Y., on July 1. The firm will continue under the same name at their Warren, Pa., office. Mr. Fidler will go into business in Cleveland, Ohio.

* * *

Walter Kidde & Co., New York, is the new title of the engineering and constructing firm of Walter Kidde. The firm's quarters are at 180 Cedar street. This business was established in 1900 and has specialized in the construction and equipment of factories. The new organization includes departments of construction, hydraulics, steam and mechanical engineering, electrical engineering and chemical engineering. The officers of the company are: President, Walter Kidde; vice-president, B. G. Worth; secretary and treasurer, I. R. Lewis; Board of Directors, above named officers and Henry Lang, vice-president of the Ingersoll-Rand Co., and E. S. Boyer, of the American Hard Rubber Company. Mr. Kidde's other principal associates who compose the engineering board of the new corporation are A. B. Miller, Walter S. Wainwright, M. J. Butterfield and E. Schwartz. The chief draftsman is Thorlief Fliflet.

* * *

Arthur M. Torrey, formerly with **W. S. Barstow & Co.**, has left that organization to re-enter the employ of Hildreth & Co., inspection engineers, 15 Broad street, New York City, with which firm he was connected for several years prior to joining the Barstow force.

* * *

H. E. Baton, formerly of Twelfth and Sansom streets, Philadelphia, has removed his offices to the Presser Building, 1713 Sansom street.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Fifty-fourth and Woodbine avenue, Philadelphia, \$15,000. Architect, James C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owner, Martin Malony, 2427 North Fifty-fourth street, Philadelphia. Stone, 3 stories, 44x26 feet, tile roof, hot water heating, electric lighting, tile work, hardwood floors, metal lath. Owner will build.

Residence (alt.), 603 Fitzwater street, Philadelphia, \$3,000. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Joe Esposito, on premises. Consists of interior alterations, hot water heating, electric lighting and fixtures, tile work, hardwood and cement floors. Plans completed. Owner taking bids. Tony Bressi, 702 South Sixth street, and Frank Boliato, southeast corner of Seventh and Christian streets, are figuring.

Hotel (int. alt.), southeast corner Broad and Locust streets, Philadelphia, \$100,000. Architect, Albert M. Gray, 1402 Broadway, New York City. Owners, Walton Hotel Co., Chas. B. Collins, president, 9 West Seventeenth st., New York City. Consists of new plumbing, interior decorations, furnishings, tile and marble work, metal lath. Plans about completed. Owners will take sub-bids.

Bungalow and Garage, Oak Lane, Philadelphia. Architect, private plans. Owner's name withheld. Stone and brick, 2 stories, 72x36 feet, slate roof (heating, plumbing reserved by owner), electric lighting, tile work, metal lath, oak and pine floors. Owner has received bids.

Apartment House (alt. and add.), 2550 N. Broad street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Guy Luburg, Broadway and Walnut street, Camden, N. J. Brick, 3 stories, slag roof, steam heating, electric lighting, tile and marble work, hollow metal skylights, kalamein doors, parquet floors, metal lath, roof ventilators, ornamental iron work. Architects have received bids.

Factory Building (alts.) and Wash and Locker Room, Ninth and Westmoreland sts. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Surpass Leather Co., on premises. Concrete, steel and brick, alterations and additions to main building, new wash and locker room. Architects have received bids.

Schools (2) (alt. and add.), Fifty-fifth and Chestnut streets and Oak Lane avenue, west of Twelfth street, Philadelphia. Architect, J. Horace Cook, Nineteenth street, above Chest-

nut street, Philadelphia. Owners, City of Philadelphia, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, hollow tile, metal lath, fire doors, cement and maple floors, plumbing, plastering, new counters, partitions, millwork, painting. Owners taking bids, due July 5th. Hogg Const. Co., 1634 Sansom street; George Dobbin, 414 S. Forty-first street; E. C. Durell, 1713 North Twenty-fourth street; John H. Jordan, Thirty-first and Oxford streets, and Mitchell Bros., 2125 Race street, are figuring.

Caretakers' House and Paving, Queen Lane Park, Philadelphia. Architect, Louis E. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, Room 113, City Hall. Brick, 1½ stories, 17x13 feet, slate roof, pine floors, cement paving. Owners taking bids, due July 5th at noon. George Dobbin, 414 South Forty-first street, is figuring.

Advance Base Storehouse, Marine Barracks, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, steel and reinforced concrete, 1 story, 130x60 feet, and two wings, 50x120 feet, slag roof, concrete floors, electric light, fire and hollow metal doors, rolled steel sash, hollow metal skylights, waterproofing, wire work (heating separate bids). Lowest bidders: McCloskey-Bahls, 1620 Thompson street, \$83,748; H. E. Baton, Twelfth and Sansom streets, \$86,000; Turner Concrete Steel Co., 1713 Sansom street, \$89,750.

Engine House (alt. and add.), Delaware avenue and Robbin street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick and reinforced concrete, 1 story and gallery, 41x18 feet, slag roof, cement floors (heating and lighting reserved), fire doors, waterproofing. Architect taking bids, due July 5th. F. W. Van Loon, Denekla Building; H. E. Baton, Twelfth and Sansom streets; John R. Wiggins Co., Otis Building, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

Store, 913-15 North Broad street, Philadelphia. Architect, private plans. Owner, Harry T. Saunders, 31 South Eighteenth street, Philadelphia. Brick, 1 story, 35x100 feet, slag roof. Plans completed. Work contemplated.

Freight Station, Office and Sheds, Abbottsford avenue, near King street. Architects, Maintenance of Way Department, Broad

Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and steel, concrete foundations, freight station and office, 1 story and basement, 38x52 feet, and sheds, 1 story, 14x160 feet, slag or built-up roof, cement and pine floors, steam heating, electric lighting, fire doors, rolling steel doors, ornamental iron work (structural steel and cement reserved). Plans completed. Owners, care of J. H. Gumbes, superintendent, Thirty-second and Powelton avenue, will take bids.

Church (alt. and add.), Woodbine avenue and Sixty-third street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Our Lady of Lourdes R. C. Church, Rev. James H. Mullen, on premises. Stone, new stone walls, cement floors, mill work, waterproofing. Architects taking sub-bids.

Restaurant (alt.), 1527 Chestnut street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, J. G. Patton (Cafe L'Aiglon), 15 Chestnut street, Philadelphia. Consists of turning basement into restaurant, steam heating, electric lighting, tile and marble work, terrazzo floors, metal lath, ornamental iron work. Plans in progress.

Apartment House, Philadelphia. Architects, John I. Bright & J. Warren Myers, Otis Building, Philadelphia. Owner's name withheld. Reinforced concrete, brick, stone and terra cotta, 12 stories, 131x75 feet, slate and tile roof, cement, oak and pine floors, tile, marble and terrazzo work, hollow metal sash and skylights, fire doors, hollow tile, roof ventilators, waterproofing, ornamental iron work (heating, lighting, plumbing and elevator reserved). Architects have received bids.

Apartment House (alt.), Seventeenth and Rittenhouse streets, Philadelphia. Architect, Frederick Webber, 1421 Chestnut street, Philadelphia. Owner's name withheld. Brick, 4 stories, hot water heating, electric lighting, tile work, hollow metal sash and skylights, fire doors, mill work, elevators. Architect has received bids.

Motion Picture Theatre (alt.), Front and Girard avenue, Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Jumbo Amusement Co., Front and Girard avenue, Philadelphia. Brick, 1 story, consists of tearing out and altering front and interior. Architects have received bids.

Residence and Garage, Westview street, Ger-

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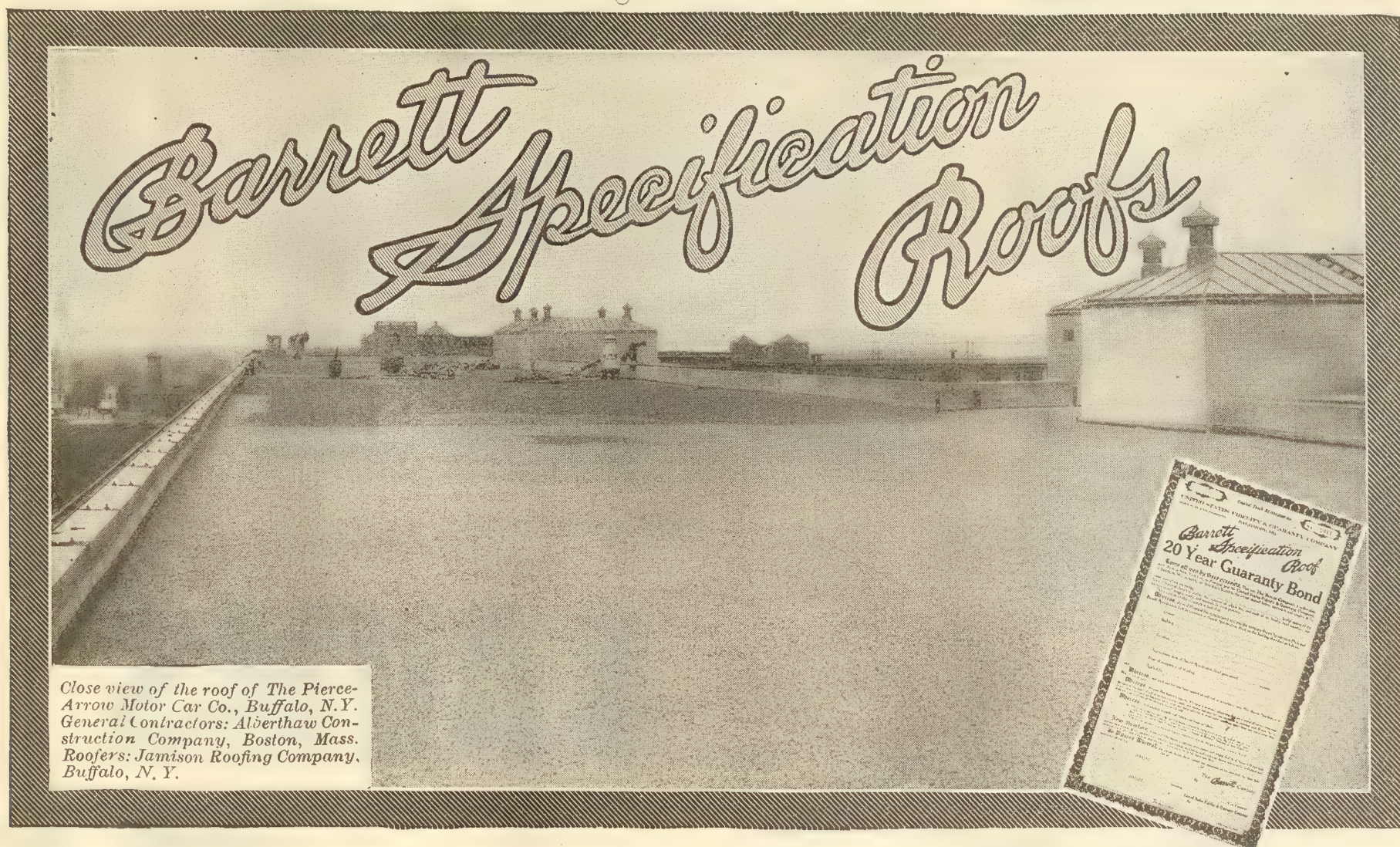
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"The roof shall be laid according to the Barrett Specification, dated May 1, 1916, and the roofing contractor shall upon completion of the job deliver to us the Barrett 20-Year Guaranty Bond, in accordance with Note 1 of such Specification."

Competitive bids were then asked for.

The concern to which the job was finally awarded promptly notified us regarding the job, asked for our Inspection Service, and the 20-Year Bond.

Our Inspectors supervised the job, saw that the Specification was strictly followed both as to

methods and materials, and on its completion certified that the roof was O.K. in every respect.

On this certification the United States Fidelity & Guaranty Company of Baltimore issued a 20-Year Surety Bond, which *exempts the owner from any maintenance or repair expense to the roof until 1936.*

The Guaranty Bond costs the owner and the roofing contractor nothing.

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This new Guaranty Bond is issued on all Barrett Specification Roofs of 50 squares or more in all towns in the United States and Canada of 25,000 population and over, and in smaller centers where our Inspection Service is available.

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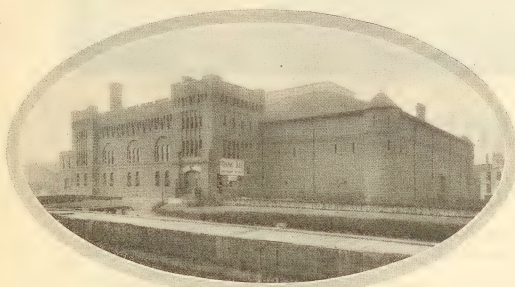
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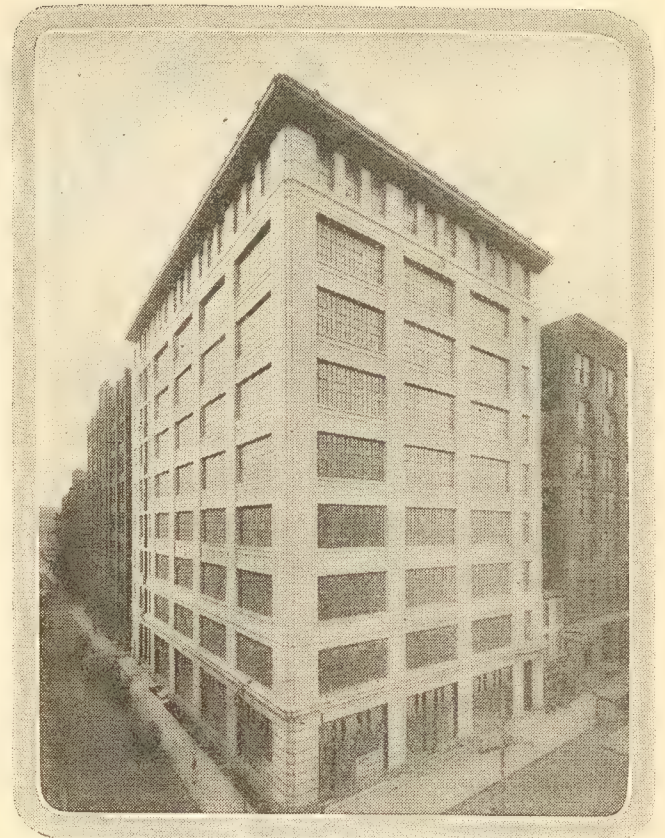
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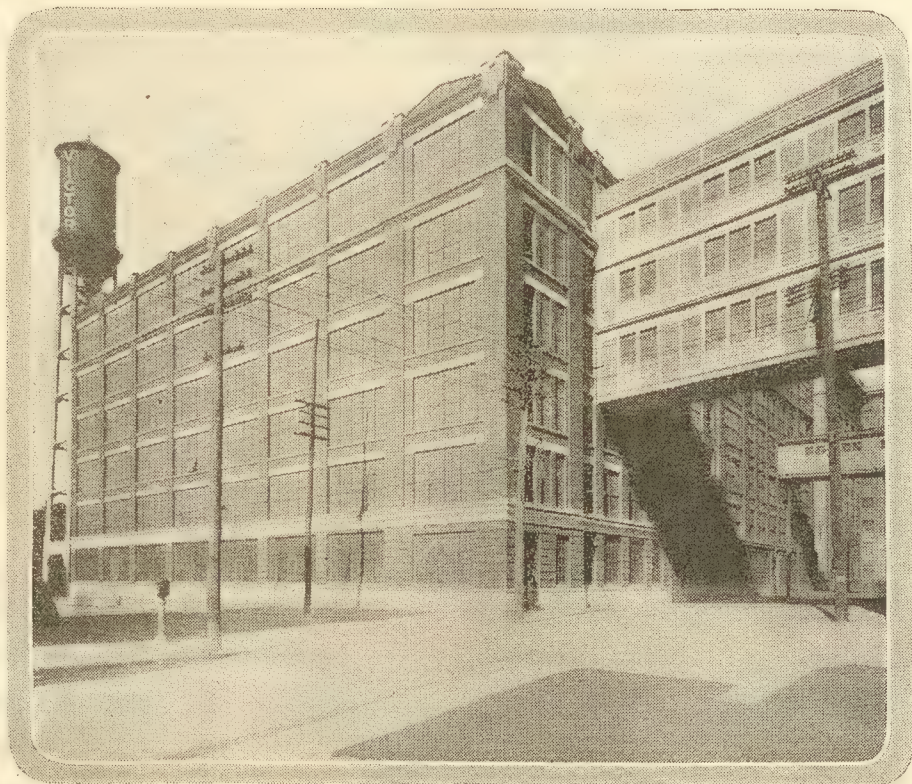
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mantown, Philadelphia. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Walter Biddle Saul, 4615 Pulaski avenue, Philadelphia. Stone, 2½ stories, 32x120 feet, wing 22x30 feet; garage, 1½ stories, 22x26 feet, shingle roof, hardwood floors, hot water heating, electric lighting, tile work. Plans about completed. Architect will take bids in one week.

Toilet Room (alt.), Lafayette Building, Fifth and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard Estate, Lafayette Building, Philadelphia. Painting and plastering and plumbing, tile and marble work, metal lath. Owners, care of Mr. Mirkil, have received bids.

Storage Shed, Thirty-ninth and Powelton avenue, Philadelphia. Architect, private plans. Owners, George W. Smith & Co., 3907 Powelton avenue, Philadelphia. Brick or frame, 1 story, 40x150 feet. Plans in progress.

Residence (int. alts.), 1835 Diamond street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, A. Fleet, on premises. Consists of general interior alterations, plumbing, electric lighting, hardwood floors, plastering, painting. Architect sub-letting.

Store and Loft Building (remodeling), 614-16 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia.

Philadelphia. Owners, Akron Tire Co., on premises. Brick, 4 stories, 40x100 feet, slag roof, steam heating, electric lighting, tile and marble work, maple, pine and cement floors, metal lath. Plans in progress.

Manufacturing Building, 5432 Lancaster avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Niagara Manufacturing Co., 323 N. Second street, Philadelphia. Brick (slow burning), 2 stories, 80x70 feet, slag roof. Plans about completed. Architect will take bids in a few days.

Office Building, 1312-14 Chestnut street, Philadelphia. Architect not announced. Owners, Cunningham Piano Co., 1101 Chestnut st., Philadelphia. Brick, stone, steel and terra cotta, 12 stories, 40x104 feet. Plans completed. Contemplate building in 1918.

Club House (alt.) and Store, 405 North Sixty-fourth street, Philadelphia. Architect, Henry A. McGrath, 549 North Sixty-third street, Philadelphia. Owner, F. Iaunozelli, care of Lambert & McDermott, 403 North Sixty-third street. Brick and steel (fire tower), 3 stories (heating and lighting reserved), slag roof, cement and pine floors, metal lath, hollow metal skylights, fire doors, metal bulks, ornamental iron work. Owner taking additional bids, due July 9th, from George Kessler Contr. Co., Drexel Building.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 1207 Sommerville avenue, Philadelphia, \$1,100. Architect, Paul L. Boyd, 5012 Schuyler street, Germantown. Owner, Mr. Ellis, on premises. Hollow tile and plaster, 1 story, 14x20 feet, composition shingle roof, cement floors, electric lighting. Contract awarded to R. Wallace Troemner, Sixth and Chew streets.

Residence and Garage, Frankford, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, J. Augustus Edgar, 4641 Penn street, Frankford, Philadelphia. Brick and plaster, 2½ stories, 20x50 feet; garage, 1 story, 12x20 feet, slate roof, hot air or hot water heating, electric lighting, tile work, hardwood floors, metal lath. Contract awarded to Rush Bros., 1104 Arrot street, Philadelphia.

Office Building, 33 South Letitia street, Philadelphia, \$7,000. Architect, private plans. Owner, C. Churchman, 33 South Letitia street, Philadelphia. Brick and steel, second story addition, 55x22 feet, slag roof, pine floors, electric lighting, rolled steel sash, metal lath. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Church (alt. and add.), southeast corner of Seventeenth and Fitzwater streets, \$8,500. Architect, private plans. Owners, First African Presbyterian Church, Rev. J. W. Lee, on premises. Brick, 2 stories (add.), 10x33 feet, slag roof, steam heating, pine floors, electric lighting, leaded glass (lighting fixtures reserved). Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Administration Building (alt.) and Office Building, 516 North Fourth street, \$12,000. Architects, Simon & Bassett, 1112 Chestnut street, Philadelphia. Owners, United Hebrew Charities, on premises. Brick, office building, 2 stories and basement, 15x60 feet, slag roof, pine floors, tile and marble work, metal lath (heating, electric work and plumbing reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

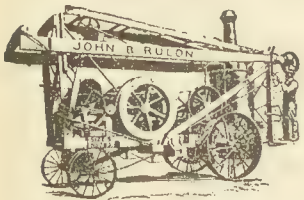
Factory and Power House, southeast corner of Twenty-first and Clearfield streets, \$180,000. Architects, Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia. Owners, De Long Hook and Eye Co., Broad and Wallace streets. Reinforced concrete and brick, 4 stories, 88x225 feet, 1 story, 54x45

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feet, slag roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and maple floors, elevators, waterproofing. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia.

Service Station, Broad and Brown streets, \$350,000. Architects, Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia. Owners, Studebaker Corp. of America, Eighteenth and Noble streets. Reinforced concrete, brick and terra cotta, 7 stories, 60x160 feet, slag roof, cement floors, steam heating, electric lighting, tile work, rolled steel sash, fire doors, cement floors, floor hardener, 3 elevators. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street.

Buildings (3), Frankford Arsenal, Philadelphia, \$130,000. Architect, private plans. Owners, U. S. Government, Col. George Montgomery, Frankford Arsenal, Philadelphia. Brick, steel and concrete. Artillery ammunition house, 2 stories, 180x50 feet, wing 47x50 feet; paint shop, 1 story, 150x47 feet; high explosive storage building, 1 story, 47x47 feet, slate roof, rolled steel sash, cement, composition, hardwood and wood block floors. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia.

Residence (alt. and add.), 1421 North Fifteenth street, Philadelphia, \$3,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Dr. Ludwig Loeb, on premises. Brick, 3 stories, one-story addition, vapor heat, electric light, maple floors, plastering and painting. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

BUILD NOW.

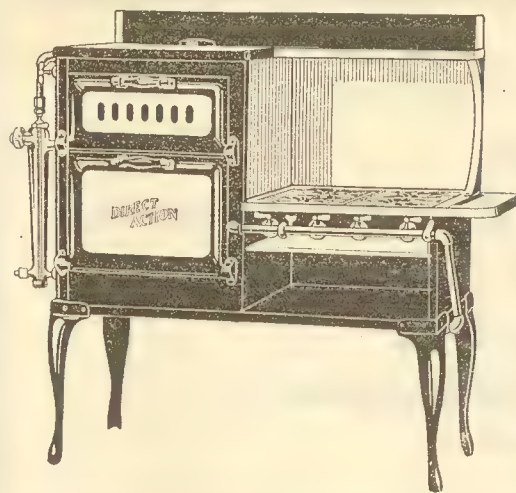
In these days of high prices some natural hesitation in embarking in building enterprises is natural. Certainly it is observable here and there in instances in which building operations announced as about to go ahead have been held up or bids on work being received prove in excess of estimated cost.

The most thoughtful of those engaged in building, however, believe that now is the time to proceed with such work before prices are higher. No one doubts that they will go higher if war conditions continue to obtain, and the best judgment of those at the Government helm is that they will. Besides, it is figured, men might as well do business on a high plane of values as on a low. If conditions involve high expenditures they will also involve large receipts.

That this viewpoint is taken by the majority is manifest when one considers the increased building figures. In this city alone the building figures for May showed an increase of over \$600,000, and for the first five months of the year one of over \$1,500,000.

Whatever the cost, men must still live in houses and do business in commercial structures and factories. Children must be educated in school houses and the entire social and business life of the country must be housed.—“Ohio Architect.”

The chap who bags the glittering prize
Is the fellow who learns to advertise



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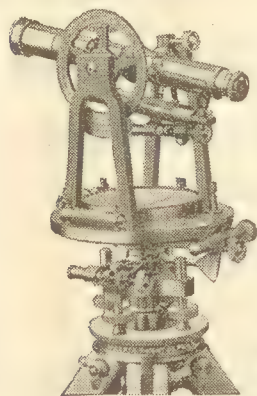
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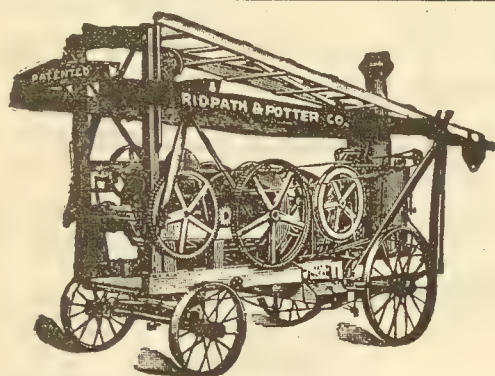


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PENNSYLVANIA
Construction News

Residence, Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Percy L. Neal, southeast corner of Sixteenth and Master streets, Philadelphia. Hollow tile and plaster, 32x102 feet, wing 20x35 feet, slate roof, hot water heating, electric lighting, hardwood floors, 1 elevator. Architects taking bids, due July 5th. Milton W. Young, Overbrook, Pa.; Chas. C. Pace, Merion, Pa.; Alfred James, Bala, Pa.; Wm. R. Dougherty, 1610 Sansom street; E. J. Hedden, Finance Building; A. L. Fretz & Son, Heed Building; Graham-Campion Co., Otis Building, and John E. Kearney, 327 N. Sixty-third street, are figuring.

School, Ashland Heights, Montgomery Co., Pa., \$70,000. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, superintendent of schools, Ardmore, Pa. Brick, stone and hollow tile, 1 story and basement, 179x188 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, metal lath, roof ventilators, metal weather strips, waterproofing, damp-proofing, wire work, ornamental iron work. Owners taking bids, due July 9th. Wills-Ludwick Co., 34 South Seventeenth street; E. J. Hedden, Finance Building; James H. Wells, Otis Building; John E. Kearney, 327 North Sixty-third street; Mowrer Bros., Merion, Pa., are figuring.

Residence and Garage, Ogontz, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Mrs. Herbert K. Taylor, Ogontz, Pa. Stone, 2½ stories, 50x56 feet, shingle roof (warm air heating separate bids), electric lighting, tile work, hardwood and cement floors. Architects taking bids, due

July 10th at noon. Specht & Sperry, Heed Building; W. John Stevens, Inc., Wynecote, Pa., and Frederick Graupner, Wagner street, below Tabor road, are figuring.

Office Building, Conshohocken, Pa. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owner, A. Talone, Conshohocken, Pa. Brick and marble trimmings, 2 stories, 35x75 feet, slag roof, pine and terrazzo floors (heating, plumbing and electric work reserved). Architect taking bids, due July 5th. Wm. R. Dougherty, 1610 Sansom street; Jas. M. Duffy, Wayne, Pa., are figuring.

Residence (alt. and add.) and Garage, Jenkintown, Pa. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owner, R. S. Bulger, Jenkintown, Pa. Frame and plaster, 1 story, 23x19 feet, shingle roof, oak and cement floors (plumbing, heating, lighting, tile and marble work reserved). Architect taking bids, due July 10th. Specht & Sperry, Heed Building; Wm. J. Gruhler Co., 219 E. High street; W. John Stevens, Inc., Wynecote, Ja., and M. E. Hauser, Glenside, Pa., are figuring.

Residence, Elkins Park, Pa. Architect, D. Knickerbacker Boyd, Otis Building, Philadelphia. Owner, C. J. Mills, care of architect. Hollow tile and plaster, 2½ stories, 30x47 feet. Plans about completed. Architect will take bids in a few days.

Club House (alt.), 416 Gordan street, Allentown, Pa. Architects, Jacoby & Weishample, Allentown, Pa. Owners, St. Aloysius Society, Allentown, Pa. Consists of general interior alterations, mill work, plastering, 1 story, 40 x60 feet, bowling alley, electric lighting. Architects have received bids.

Factory, Coaldale, Pa. Architect, Wayne M. High, Reading, Pa. Owners, Coaldale

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Italian Temple (alts.), Reading, Pa. Architects, Stetler & Mengle, Reading, Pa. Owners, Spartacus Society, Reading, Pa. Brick, 3 stories, 50x10 feet, general interior alterations, mill work, glazing, etc. Plans in progress.

School, Boyertown, Pa., \$75,000. Architect, Ed. Z. Scholl, Reading, Pa. Brick and stone, 2 stories and basement, 140x71 feet, slag roof, steam or mechanical warm air heating, electric lighting, hollow metal skylights, kalamein doors, roof ventilators, waterproofing. Plans in progress.

Garage, Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, name withheld. Brick, 1 story, 49x104 feet, composition roof, cement floors, electric lighting, heating not decided, electric lighting, rolled steel sash, gasoline storage system. Plans in progress.

Garage, Reading, Pa. Architect, H. J. Mauer, Baer Building, Reading, Pa. Owner, Thos. Pepper, Reading, Pa. Brick, 1 story, 65x30 feet, slate roof, hot water heating, concrete floors, electric lighting, gasoline storage system. Plans in progress.

School (add.), Elm and Madison streets, Reading, Pa. Architect, Ed. Z. Scholl, 31 N. Sixth street, Reading, Pa. Owners, School Board, care of Edgar Richardson, secretary, Administration Building, Reading, Pa. Brick, 2 stories and basement, 4 rooms, 33x62 feet, slate roof, hot air or steam heating, electric lighting, maple floors. Owners taking bids, due July 10th. W. A. Sharp, Geo. Koch, Beard Const. Co., Daniel H. Hunter, and Chas. Schlegel, all of Reading, Pa., are figuring.

Store Front, Pottsville, Pa. Architect, H. J. Maurer, Reading, Pa. Owners, Heinz Store, Pottsville, Pa. Metal bulks, 20 feet,

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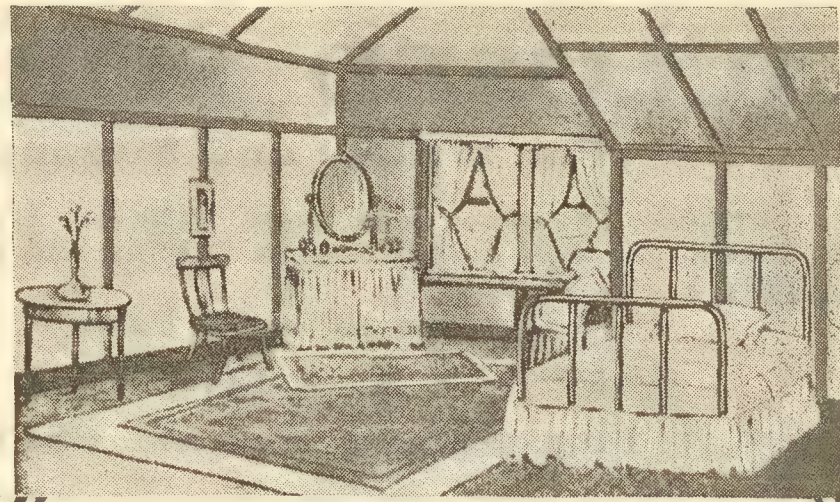
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hardwood floors. Architect taking bids, due June 30th. C. W. Messersmith, W. H. Aregood, Wm. Knoll, and Wertley Bros., all of Pottsville, Pa., are figuring.

Factory, Sellersville, Pa. Architect, Oscar Martin, Doylestown, Pa. Owners, United States Gauge Co., Sellersville, Pa. Brick and concrete, fireproof, 3 stories, 50x50 feet, slag roof, steam heating, electric lighting rolled steel or hollow metal sash, steel doors, cement and marble floors, hollow tile. Plans about completed. Owners will take sub-bids.

Office, Lebanon, Pa. Architect, A. A. Ritcher, Reading, Pa. Owners, Muria Bros. & Co., Lebanon, Pa. Hollow tile and stucco, 2 stories, 27x34 feet, asbestos shingle roof, vapor heating, electric lighting, composition floors. Owner ready for bids.

Theatre, 608-10 Hamilton street, Allentown, Pa. Architect, Geo. Gerhard, 619 Penn street, Reading, Pa. Owner, Geo. W. Bonnetun, Reading, Pa. Brick (interior and exterior alterations), electric lighting. Revised plans in progress.

Residence, Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, J. M. Degnan, Bethlehem, Pa. Brick, 2 stories, 40x40 feet, slate roof, hot water heating, electric lighting, pine floors. Owner taking bids.

Restaurant and Apartment Building, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Andrew Kalapedes, South Bethlehem, Pa. Brick, 3 stories, 20x80 feet, slag roof, yellow pine floors, hot water heating, electric lighting, tile work. Owner taking bids.

Hotel (alt. and add.), E. Fourth street,

South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Jerry McCarthy, South Bethlehem, Pa. Consists of general interior and exterior alterations. Owner taking bids.

Church, Fountain Hill, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owners, Evangelical Lutheran Church, Fountain Hill, Pa. Brick, 1 story, 45x90 feet, slate roof, pine floors, electric lighting. Owner taking bids. Harry Molin, Fountain Hill, Pa., is figuring.

Chapel, Edgeboro, Bethlehem, Pa., \$10,000. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian Congregation, Rev. W. V. Moses, or Emil Bishop, chairman of building committee, Edgeboro, Pa. Brick, 1 story, 30x45 feet, slate roof, hot water heating, electric lighting, wood floors. Architect ready for bids.

Hotel, Northampton Heights, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, James F. Miller, South Bethlehem, Pa. Brick, 3 stories and basement, 43x85 feet, slag or Spanish tile roof, steam or hot water heating- electric lighting, tile and marble work, fire escapes, yellow pine floors. Architect ready for bids, due July 1st.

Garage, Easton, Pa. Architect, A. D. Chidsey, Drake Building, Easton, Pa. Owner, John Newmeyer, Easton, Pa. Brick and mill construction, 1 story, 150x70 feet, slag roof, steam heating, electric lighting, concrete floors. Owner taking bids, due as soon as possible. C. D. Stewart and A. A. Bechtel, both of Easton, Pa., are figuring.

Residence, Hokendauque, Pa., \$8,000. Arch-

itect, A. D. Chidsey, Jr., Drake Building, Easton, Pa. Owners, Thomas Iron Co., Hokendauqua, Pa. Consists of general interior and exterior alterations, 2½ stories steam or hot water heating, hardwood floors, tile work. Owner is sub-letting.

Residences (15), East Sixth street, South Bethlehem, Pa. Architect, J. R. Wilt, 47 S. Fourth avenue, Bethlehem, Pa. Owner, Philip J. Bryne, Fourth and Spruce streets, South Bethlehem, Pa. Brick, 2 stories, Carey's flexible cement roof, pine floors. Owners taking bids, due as soon as possible. Butz & Clader, Allentown, Pa., are figuring.

Double Bungalow, South Bethlehem, Pa. Architect, E. Pickin, Hunsicker Building, Allentown, Pa. Owner, Rozi Gosztonye, Bethlehem, Pa. Brick and stucco, 2 stories, 36x72 feet, slate roof, pine floors, steam heating, electric lighting. Owner taking bids, due as soon as possible. Wm. Stout, Bethlehem, Pa., is figuring.

Residences (3), Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owners, Weinstein & Potruch, South Bethlehem, Pa. Frame, 2 stories, 16x40 feet, slag roof, electric lighting, pine floors, heating undecided. Plans in progress.

School (alt. and add.) (Fairview), Easton, Pa. Architect, Robert E. Ochs, City Realty Building, Bethlehem, Pa. Owners, Board of Education, Wilson Township, L. J. Woodring, secretary, 1838 Butler street, Easton, Pa. Brick, 2 stories, 12x30 feet, Barrett roof, cement floor, plumbing, iron railing. Owners taking bids, due July 2d.

Residences (50), Miller Heights (near Beth-

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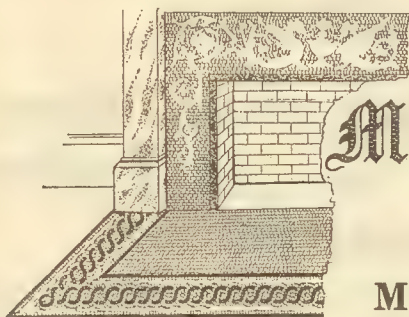
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lehem), Pa. Architect, private plans. Owner, John H. West, City Realty Building, Bethlehem, Pa. Brick and tile, 2 stories, 16x32 feet, slate roof, pine floors, electric lighting. Owner will build. Work about to be started.

Toilet Room, Drake Building, Easton, Pa., \$1,500. Architect, Wm. M. Michler, Drake Building, Easton, Pa. Owner, Fred R. Drake, Easton, Pa. Consists of plumbing, marble work. Architect ready for bids.

Residence and Garage, North Delaware river road, Easton, Pa. Architect, Wm. M. Michler, Drake Building, Easton, Pa. Own-

er, Evans Chipman, North Delaware river road, Easton, Pa. Frame and concrete, 2½ stories, 56x26 feet, shingle roof, steam heating, electric lighting, pine floors, gasoline storage system. Plans completed. Owner will sub-let.

Residences (3), Allentown, Pa. Architect, Frank X. Reilly, Buckley Building, Allentown, Pa. Owner, name withheld. Brick, 2½ stories, 42x54 feet, tin and slate roof, electric lighting, pine floors, heating undecided. Plans in progress. Architect will take bids in ten days.

PENNSYLVANIA Contracts Awarded

Residence, Bangor, Pa. Architect, Wm. M. Michler, Drake Building, Easton, Pa. Owner, T. O. Werner, Bangor, Pa. Brick, 2½ stories, 43x29 feet, slate roof, hardwood floors, electric lighting, tile work, hollow tile, heating not decided. Contract awarded to John Stiles, Bangor, Pa.

Garage, Carpenter and Cherry streets, Reading, Pa. Architect, C. J. Young, Washington street, Reading, Pa. Owner, Penn Trust Co., Reading, Pa. Brick, galvanized iron and steel, 1 story, 60x90 feet, slag roof,

hot water heating, electric lighting, concrete floors, fire doors, gasoline storage system. Contract awarded to L. G. Heinley, Reading, Pa.

Store and Apartments (alt.), Reading, Pa. Architect, G. C. Freeman, Reading, Pa. Owners, Penta & Raduazzo, Reading, Pa. Brick, general interior alterations, 4 stories. Contract awarded to Wm. McDowell, Reading, Pa.

Church, Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Olivet

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Presbyterian Church, Reading, Pa. Stone, 1 story, 50x60 feet, slate roof, pine floors, steam heating, electric lighting. Contract awarded to H. J. Raudenbush, Reading, Pa.

Residence (alt. and add.), Wynnefield, Pa., \$9,000. Architect, private plans. Owner, B. Urban, 5204 Drexel road, Wynnefield, Philadelphia. Stone, 2 stories and basement, add. 12x25 feet, shingle roof, pine floors (heating reserved), electric lighting, tile and marble work, fire doors, pine floors, metal lath. Contract awarded to Geo. Kessler Cont. Co., Drexel Building, Philadelphia.

Club House (alt. and add.), Huntingdon Valley, Pa., \$5,000. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owners, Huntingdon Valley Country Club, Huntingdon Valley, Pa. Brick and stone, consists of alterations to kitchen. Contract awarded to J. S. Cornell & Son, Finance Building, Philadelphia.

Residence, Barn, Garage and Out Buildings (alts. and add.), Pickering Valley, Pa., \$70,000. Architect, Chas. Barton Keen, 1218 Chestnut street, Philadelphia. Owner, Geo. C. Priestley, Pickering Valley, Pa. Brick and stone, 2½ stories, 88x35 feet and 20x40 feet, shingle roof; garage, 1½ stories, 25x34 feet. Contract awarded to Wills-Ludwick Co., 34 S. Seventeenth street.

Bridge, No. 19, south of Oreland, on Plymouth Branch. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading R. R. Co., Reading Terminal, Philadelphia. Concrete and steel, waterproofing, (2) 13-foot spans. Contract awarded to F. H. Leonard, Wayne, Pa.

Store and Apartments (alt.), Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, name withheld. Brick, 3 stories, 82x22 feet, hot water heating, metal bulks. Contract awarded to F. F. Speck, Bethlehem, Pa.

Emergency Ward, Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owners, St. Luke's Hospital, Bethlehem, Pa. Brick, 2 stories, 165x23 feet. Contract awarded to Geo. Nordinger, South Bethlehem, Pa.

Store Building, 808-10 Hamilton street, Allentown, Pa. Architect, private plans. Owners, Bowman Estate, care of James K. Bowman, Allentown, Pa. Brick, 2 stories, 80x40 feet, slag roof, maple floors, electric lighting, plumbing. Contract awarded to W. H. Gangewere, Allentown, Pa.

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Delaware Construction News

State Armory, New Castle, Del. Architect, Leon W. Crawford, Wilmington, Del. Owners, State of Delaware, Col. Wickersham, Wilmington, Del. Brick, 2 stories, 102x50 feet, slag roof, pine floors, electric lighting (plumbing and heating reserved), ornamental iron work. Architect ready for bids.

Tire Shop (alt.), Delaware avenue and West street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, N. W. Howell, on premises. General interior alterations, 3 stories. Architect ready for bids.

Elks Club, Wilmington, Del. Architect, C. D. Thompson, Ford Building, Wilmington, Del. Owners, B. P. O. E. No. 307, Wilmington, Del. Brick, 5 stories, 113x14 feet, Spanish tile roof (vapor heating, electric lighting, elevators and dumbwaiters reserved), tile work, rolled steel sash, kalamein doors, fire escapes, pine floors, hollow tile, metal lath, safety treads, waterproofing, ornamental iron work. Architect taking bids, due July 5th. W. D. Haddock & Co., 804 Orange street; F. E. Healy & Son, 2607 W. Eighteenth street; J. A. Bader, Lockey Building; A. S. Reed & Bro., 815 Shipley street; Geo. S. Charles & Son, Realty Const. Co., Dupont Building, all of Wilmington, Del., and Jas. B. Flounders, 1329 Arch street, Philadelphia, are figuring.

Garage, Wilmington, Del., \$25,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John J. Monaghan, Fouth and Madison streets, Wilmington, Del. Brick, 2 stories and basement, 60x80 feet, slag roof, steam heating, electric lighting, rolled steel sash, iron stairs, concrete and wood floors, hollow tile, metal lath, elevators, roof ventilators, waterproofing, gasoline storage system. Architect taking bids, due July 12th. F. E. Healy & Son, 2607 W. Eighteenth street; J. A. Bader, Lackey Building; C. J. Dougherty, Joyce & Kerrigan and W. D. Haddock & Co., 804 Orange street, all of Wilmington, Del., are figuring.

Apartment Building, Wilmington, Del. Architect, Ed. Canby May, Wilmington, Del. Owner, S. Bancroft, Jr., Wilmington, Del. Consists of general interior alterations, 3 stories, electric lighting. Contract awarded to W. D. Haddock & Co., Wilmington, Del.

Miscellaneous Construction News

Bancroft Hall (Extension), Annapolis, Md. Architect, private plans. Owners, U. S. Govt., care of Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Reinforced concrete, granite and hollow tile, 4 stories, (2) wings, 387x53 feet, (2) wings, 86x45 feet, addition to mess hall, 1 story, 75x77 feet and 1 story, 48x158 feet, slate, composition or copper roofs, composition, tile and wood floors, vacuum heating, tile and marble work, hollow metal skylights, hollow metal doors, ornamental iron work, metal lath, elevators, safety treads, waterproofing (electric work separate bids). Owners taking bids, due July 9th. Turner Concrete Steel Co., 1713 Sansom street; McCloskey & Bahls, 1620 Thompson street; F. L. Hoover & Sons, 1023 Cherry street, and McClinton-Marshall Co., Morris Building, Philadelphia, are figuring.

Isherwood Hall (Extension), Navy Academy, Annapolis, Md. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Brick, stone, steel and reinforced concrete, 3 stories, 180x55 feet, and 50x43 feet, slate roof, steam heating, electric lighting, marble and terrazzo work, rolled steel sash, hollow metal skylights and doors, wood, composition and cement floors, hollow tile, metal lath, safety treads, waterproofing. Owners taking bids, due July 9th at 11 A. M. Warren-Moore & Co., Commercial Trust Building; Turner Concrete Steel Co., 1713 Sansom street; Cramp & Co., Denckla Building; McCloskey & Bahls, 1610 Thompson street, are figuring.

Post Office, Vineland, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Govt., Treasury Department, Washington, D. C. Stone, reinforced concrete and brick, 2 stories, 72x59 feet (heating, lighting, plumbing and ventilating separate bids), composition roof, pine and cement floors, marble work, metal lath, kalamein doors, safety treads, metal weatherstrips, dampproofing, ornamental iron work. Lowest bidders: Werner-Huberty Co., 50 Court street, Brooklyn, N. Y., \$55,497, limestone; W. H. Fissell & Co., Marbridge Building, New York City, \$62,700, limestone; sandstone, \$65,700; Metzger & Fisher, Otis Building, Philadelphia, \$664,614, limestone; \$64,914, sandstone.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Dwelling, 5623 Race street, \$2,500. L. Rosengarten (O and C), 5623 Race street. Brick, 2 stories, 16x46 feet, slag roof.

Dwellings (2), Gillian and Oaken streets, \$5,600. Michael Stevens (O and C), 910 Bantow street. Brick, 3 stories, 16x28 feet, slate roof.

Dwellings (3), 5415 North Tennis avenue, \$7,500. Ed. Stoll (O and C), 5430 N. Water street. Brick, 2 stories, 16x32 feet, slag roof.

Garage, B street and Erie avenue, \$537. S. S. E. Co. (O), on premises. M. Morster & Co. (C), 3931 North Fifth street. Iron on iron, 18x20 feet.

Garage and Shop, 929 North Broad street, \$3,400. Sam R. Detwiler (O and C), 1724 Camac street. Brick, 2 stories, 26x22 feet, slag roof, hot water heating.

Garage, American and Clarkson avenue, \$1,860. A. K. Walch (O), 5538 North Second street. Geo. R. Dewees (C), 311 Grange ave. Brick, 1 story, 24x51 feet, slag roof.

Factory, Stenton avenue and Rockland st., \$90,000. American Metal Works (O), on premises. Roydhouse & Arey Co. (C), 112 N. Broad street. Reinforced concrete, 2 stories, 63x325 feet, comp. roof.

Dwelling, Linden avenue and Ditman st., \$2,800. Geo. Link (O), Tacony, Philadelphia. A. W. J. Williams (C), 9228 Walker street. Frame, 2 stories, 25x28 feet, shingle roof.

Shop, Wolf street, east of Swanson, \$1,200. Morgenthaler Bros. (O), Second and Snyder avenue. Chas. Allibone (C), 212 Morris st. Brick, 1 story, 30x46 feet, slag roof.

Brick Stack, Coral, north of Walin street, \$2,800. Hulton Printing, Processing and Dyeing Co. (O), 3851 Frankford avenue. F. Crompton & Bro. (C), 4614 Oakland street. Stack 125 feet high.

Garage, 3124 Clifford street, \$620. M. Shore (O), on premises. M. J. Benamy (C), 3042 York street. Brick, 1 story, 12x25 feet, cement floor.

Dwelling, Eighteenth and Oregon avenue, \$5,000. Fred K. Park (O and C), 4106 Girard avenue. Brick, 2 stories, 16x53 feet, slag roof, hot air heating.

Dwellings (25) (9) (16) (1), 2702 to 2750 South Eighteenth street, \$50,000; 1702-1718 Oregon avenue, \$18,000; 1703-1733 Johnson street, \$28,800; Seventeenth and Johnson sts., \$2,500. Fred K. Park (O), 4106 Girard ave-

nue. Brick, 2 stories, 11x22 feet, slag roof, hot air heating.

Dwelling, Wakeling and Saul streets, \$9,000. J. A. Edgan (O), 4625 Penn street. Rush Bros. (C), 1100 Fillmore street. Brick, 3 stories, 17x52 feet, slate roof, hot water heating.

Garage, Saul and Wakeling streets, \$800. J. Edgan (O), 4625 Penn street. Rush Bros. (C), 1100 Fillmore street. Stone and brick, 1 story, 10x19 feet, slate roof.

Shed, Bermuda and Margerette streets, \$3,500. Barrett Mfg. Co. (O), on premises. A. Raymond Raff Co. (C), 1635 Thompson street. Temporary shed, 52x92 feet.

Garage, 3507 Baring street, \$1,050. Dr. R. H. Sering (O), on premises. H. M. Irwin (C), 1613 Ramstead street. Brick, 1 story, 18x19 feet.

Dwelling, 1912 Spruce street, \$3,000. C. R. Huchman (O), on premises. Wm. J. Gruhler Co. (C), 219 High street. Interior alterations.

Transformer Station, Thirty-seventh and Reed streets, \$1,400. Phila. Rubber Works Co. (O), on premises. Stuckert & Co. (C), 1420 Chestnut street. Brick, 1 story, 20x21 feet, slag roof, cement floor.

Factory, Ontario and Miller streets, \$1,000. Geo. E. Oliver (O), 3122 North Fifteenth st. W. G. Uhler, Sr. (C), 1841 South Broad st. Brick, 1 story, 16x53 feet, slag roof.

Dwelling, Gowen and Crittenden streets, \$6,500. John S. Miller (O and C), Glenside, Pa. Stone, 3 stories, 35x29 feet, slate roof, hot water heating.

Shop, American and York streets, \$5,000. Montg. Iron and Steel Co. (O and C), 1832 N. Ninth street. Brick, 1 story, 50x113 feet, slag roof.

Garage, Warnock and Wingohocking sts., \$1,000. J. F. Stoelker (O), on premises. Ed. B. Miller (C), 4313 North Eighth street. Brick, 1 story, 22x22 feet, slag roof.

Apartment, 1224 Mt. Vernon street, \$800. Mrs. C. V. Bond (O), 530 Penn street, Camden, N. J. The John Baizley Iron Works (C), 514 S. Delaware avenue. Fire escape with doors and windows.

Shop and Power House, Stockley and Westmoreland streets, \$29,500. Phila. Dying Machine Co. (O), 6721 Germantown avenue. The Driscoll Co. (C), Stock Exchange Building.

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Brick, 1 story, 110x128 feet, 22x126 feet, 35x61 feet, slag roof.

Garage, Eleventh and Chelton avenue, \$300. H. A. Fhisch (O), on premises. H. Hope (C), 5901 York road. Frame and stucco, 1 story, slate roof, 10x17 feet.

Dwellings (4), Pulaski avenue and Eighth

teenth street, \$8,800. Frank D. Williams (O and C), 1838 Venango street. Brick and stone, 2 stories, 16x26 feet, slag roof.

Dwelling, Fifty-fourth and Woodbine avenue, \$15,000. Martin Malony (O and C), 2427 N. Fifty-fourth street. Stone, 3 stories, 44x26 feet, tile roof, hot water heating.

Alterations and Additions

Store, 416 Market street, \$1,200. John M. Schwelin (O), 1204 Chestnut street. Lam Building Co. (C), 1001 Wood street. New windows.

Office, 33 South Letitia street, \$7,000. C. Churchman (O), on premises. H. H. Burrell (C), 206 S. Quince street. Brick, 2 stories, 55x22 feet.

Factory, Nineteenth and Allegheny avenue, \$3,000. Electric Storage Battery Co. (O), on premises. Wm. Steel & Sons Co. (C), 32 S. Fifteenth street. Brick, 1 story, elevator shaft, 12x31 feet, slate roof.

Store, Second and Market streets, \$500. F. Wilkerson, Trustee (O), on premises. A. R. Raff Co. (C), 1635 Thompson street. Repair walls.

Factory, Seventeenth, Eighteenth, Buttonwood streets, \$450. Baldwin Locomotive Works (O and C), 500 N. Broad street. Cut 16 new windows.

Dwelling, 1320 S. Warnock street, \$700. D. Lucciana (O), on premises. N. Barbalomo (C), 1241 Christian street. Brick, 2 stories, 13x12 feet, slag roof.

Wagon Shed, 1552 E. Montgomery avenue, \$600. Ed. Connor (O), 1550 E. Montgomery avenue. Harry Drake (C), 3139 Frankford avenue. New Brick wall.

Store, 3534 Germantown avenue, \$1,600. Chas. H. Campbell (O and C), 3530 Germantown avenue. Brick, 1 story, 20x80 feet, slag roof.

Warehouse, Eighteenth and Chestnut sts., \$1,000. M. Fletcher Co. (O), on premises. John N. Gill Co. (C), Otis Building. Alterations, new door to elevator.

Store and Dwelling, Fifth and Green sts., \$400. Sam Stein (O), 1201 Chestnut street. J. E. Spitz (C), 5237 Knox street. New boiler installed.

Dwelling, 1511 Orthodox street, \$4,100. Central M. E. Church (O), on premises. Geo. Rimer (C), 4842 Hawthorne street. Brick, 2 stories, 16x16 feet, slag roof.

Dwelling, Allegheny ave. and Emery street, \$700. F. Franks (O and C), on premises. New front.

Dwelling, 2404 Pine street, \$300. Mrs. D. Crawley (O), 341 South Twenty-fifth street. H. H. Taylor (C), 2016 Brown street. Alterations.

Garage, 1415 and 17 Adams avenue, \$750. O. Vandebayard (O), on premises. H. Hotzel (C), on premises. Brick, 19x17 feet, slag roof, 1 story.

Dwelling, 4749 Broad street, \$2,400. P. S. Brady (O), on premises. J. F. Carberry (C), 1968 Medary avenue. Brick, 3 stories rear addition, 12x28 feet.

Stable, Fitler and Milnor streets, \$500. C. H. Howell (O), Torresdale. N. K. Freas (C), Audalusia. Alterations.

Garage, 6342 Drexel road, \$600. F. L. Harding (O), on premises. M. W. Young (C), Overbrook, Pa. Brick, 1 story addition, 13x24 feet, slate roof.

Dwelling, 1210 Dickinson street, \$300. R.

Russo (O and C), on premises. Brick, 1 story, 12x9 feet, slag roof.

Store and Dwelling, 2121 South Seventh street, \$500. A. Feltman (O), 427 Mifflin st. D. Sokolon (C), 1944 North Fifth st. Fire repairs.

Dwelling, 1302 Dickinson street, \$400. L. Rosica (O and C), on premises. Bulk window.

Factory, 617-19 Arch street, \$1,000. Chas. Bond Co. (O), 520 Arch street. Wm. Easterbrook (C), 146 North Fourth street. Fire repair.

Dwelling, 719 Federal street, \$650. Vito Girardi (O), on premises. Joseph Christopher (C), 711 Ellsworth street. Brick, 2 stories, 12x15 feet, tin roof.

Chimney, Twenty-fifth and Reed streets, \$3,300. S. B. & B. W. Fhisher (O), 36 South Fifteenth street. H. R. Heinicke (C), 1315 Stephen Girard Building. Brick, 175 feet high.

Dwelling, 140 W. Phil Elena street, \$500. S. H. Baker (O), on premises. Wm. Eddleman Sons (C), 453 Green lane. Reshingle roof.

Dwelling, 1025 Marlborough street, \$800. L. U. Craemer (O), 1020 Beach street. Albert Dell (C), 2635 E. Adams street. Party wall, 13x20 feet.

Dwelling, Twenty-fourth and Mifflin sts., \$500. Thos. L. Drummond (O and C), 2343 S. Sixteenth street. New bathroom.

Store, 1025 Market street, \$1,000. Esther C. Hare (O). R. W. Realty Co. (C), 121 Duane street, New York. Alterations to front.

Store, 759 Passyunk avenue, \$400. D. Schultz (O), on premises. Smith Hardican Co. (C), 1606 Cherry street. Brick, 3 stories addition for passageway, concrete roof, 4x8 feet.

Storage, 3042 Market street, \$1,000. Quaker City Flour Mill Co. (O), on premises. A. Raymond Raff Co. (C), 1635 Thompson street. Put in new columns and girders.

Storage, 906 Noble street, \$3,000. Swift & Co. (O and C), Chicago, Ill. Brick, 3 story addition, 34x65 feet.

Religious Service, Broad and Shunk sts., \$3,000. J. A. McKenney (O), 2701 W. Lehigh avenue. Chas. Gum (C), 2546 North Twentieth street. Frame, 1 story, galvanized iron, 60x92 feet.

Storage, Kensington avenue and Allegheny avenue, \$2,750. Max Sarfeot (O), on premises. E. G. Black (C), 3339 Frankford avenue. Brick wall, metal ceilings.

Dwelling, 3652 North Broad street, \$2,350. Waverly Realty Co. (O). Broad and Erie avenue. M. Yellan (C), 712 North Front street. Brick, 1 story, 16x15 feet, slag roof.

Factory, Westmoreland avenue and Amber streets, \$4,000. Scholler Bros. (O), 3301 Amber street. Harry Drake (C), 3139 Frankford avenue. Brick, 1 story, 37x70 feet, 17x28 feet.

Dwelling, 4824 North Thirteenth street, \$500. A. Teout (O), 4911 York road. Kohl &

Megarge (C), 124 E. Gorgas street. Interior alterations.

Office Building, 46 N. Twelfth street, \$15,000. Kahn & Greenberg (O), Morris Building. P. H. Kelly (C), Lippincott Building. Tear out brick wall, replace with new Hytex brick.

Shop, 328-30 Noble street, \$2,800. Ridge Ave. Iron & Metal Co. (O), Susquehanna avenue and Richmond street. C. M. Yacknitz (C), 1202 North Seventh street. Fire damage.

Apartment, 2112 Arch street, \$600. Abbott Est. (O), Abbott Building. John Baizley Iron Works (C), 512 South Delaware avenue. Fire escape.

Storage, Beach street and Montgomery avenue, \$2,000. De Frain Sand Co. (O), Beach and Berks streets. Concrete Const. Co. (C), 1618 Thompson street. Cement work and alterations.

Store and Dwelling, 1233 South street, \$425. L. Levin (O), 1224 South street. M. Niron (C), 802 North Sixth street. New bulk.

Dwelling, 525 South Thirteenth street, \$450. Levin Bros. (O), 526 South Thirteenth street. I. Weinstein (C), 1110 North Forty-first st. Alterations.

Dwelling, 2110 Lombard street, \$300. David Campbell (O), on premises. J. W. Miller (C), 2225 Federal street. Brick, 1 story, 12x12 feet, asphalt roof.

Dwelling, 1930 Rittenhouse street, \$2,000. Mrs. E. M. Platt (O), Chestnut Hill. James Talley (C), 1931 Market street. Alterations.

Plant, Almond and Boston ave., \$2,000. Cramp & Sons Ship Building Co. (C), Philadelphia. Hoffman Eng. Co. (C), Pennsylvania Building. Iron on iron, 38x54 feet, slag roof.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 20, 1917.—Sealed proposals will be opened in this office at 3 P. M., August 9, 1917, for the construction of the United States Post Office at Dubois, Pa. Drawings and specifications may be obtained after July 5, 1917, from the custodian of the site at Dubois, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Reference Directory for Architects, Builders and Owners

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John B. Rulon.....1355 Colwyn st., Phila.

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Brick (Face, Etc.).

O. W. Ketcham.....Builders' Exchange, Phila

Brick Renovating.

Adolph Christensen.....1433 Brown st., Phila.

Builders.

Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.

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Henry M. Miller.....46-48-50 N. 2d st., Phila.
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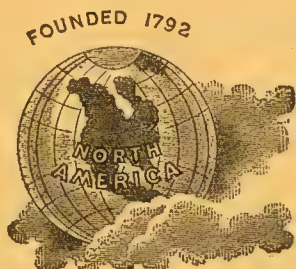
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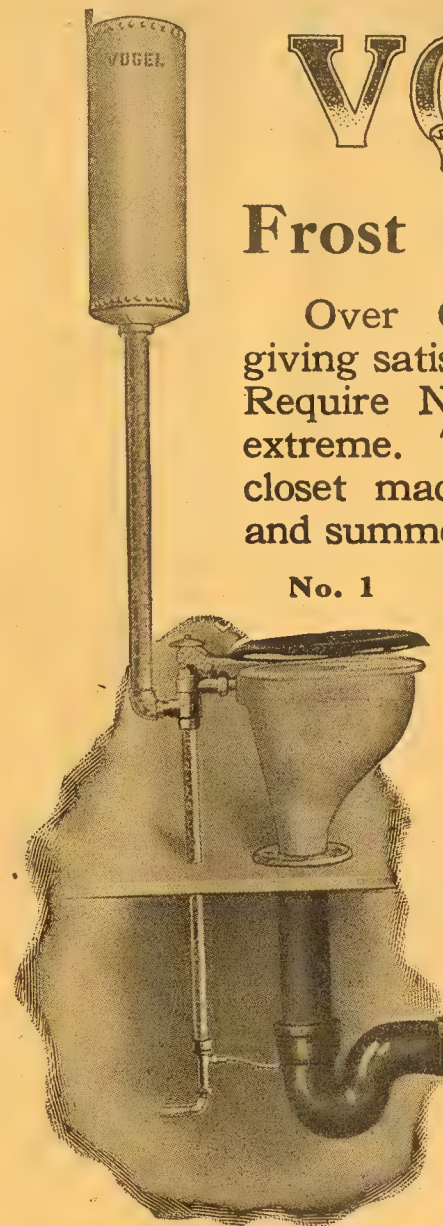
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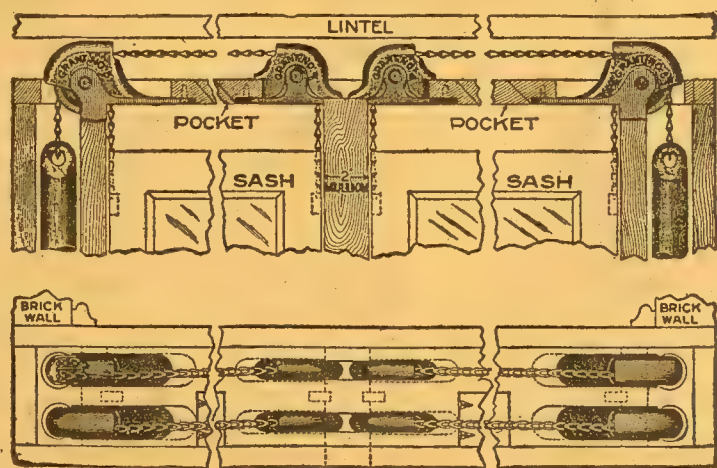
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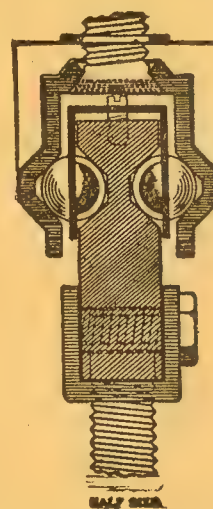
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July 11, 1917

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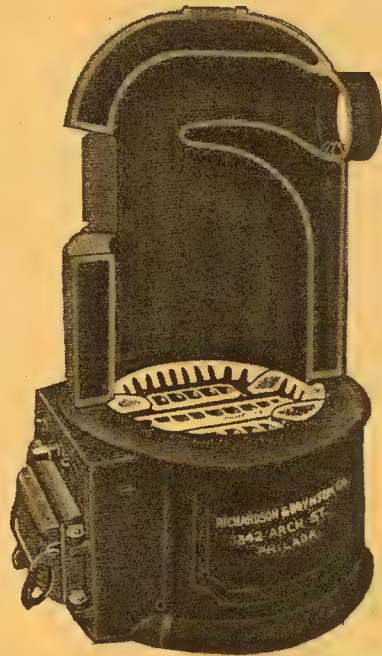
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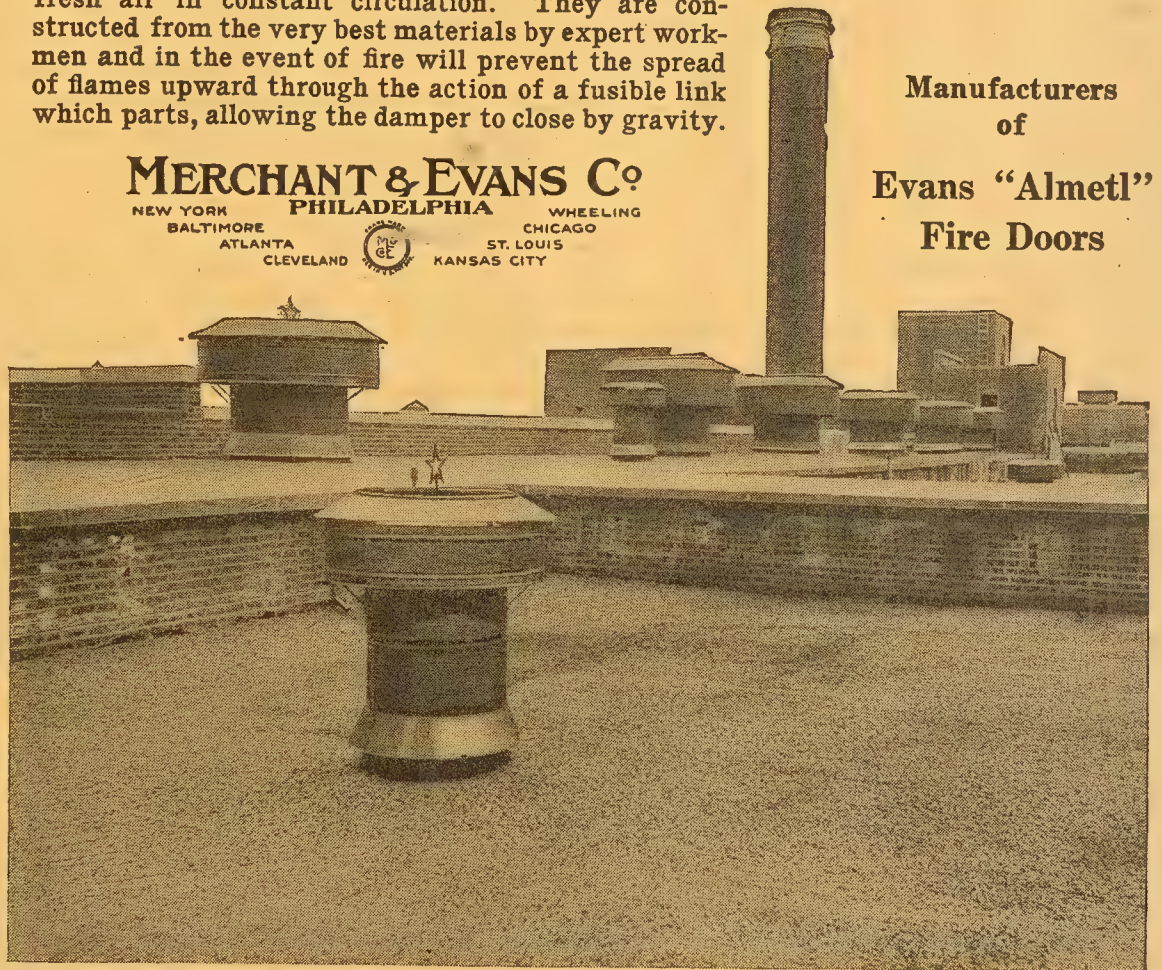
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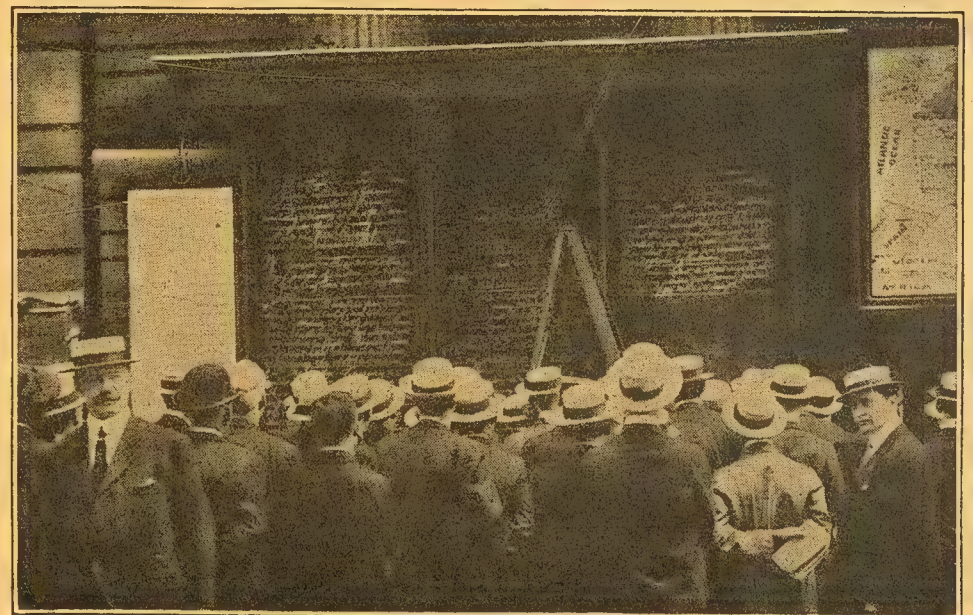


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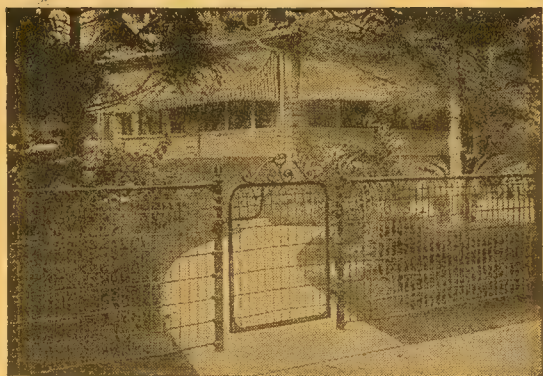
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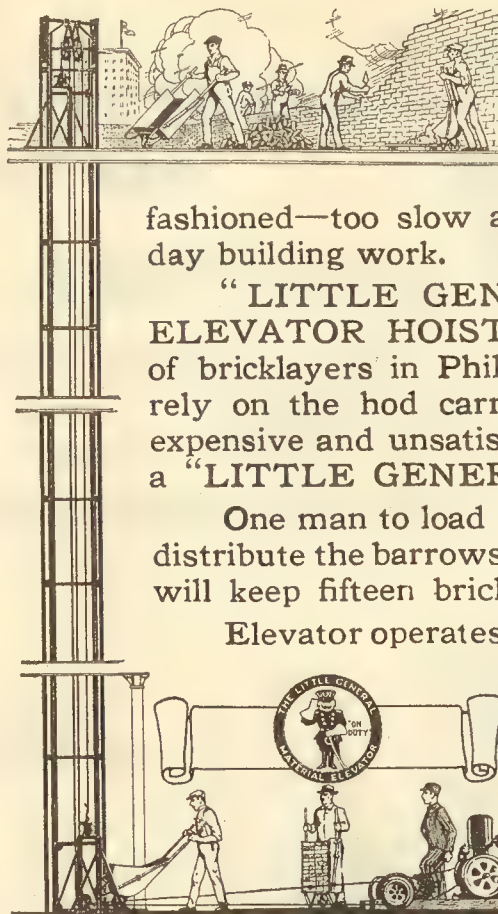
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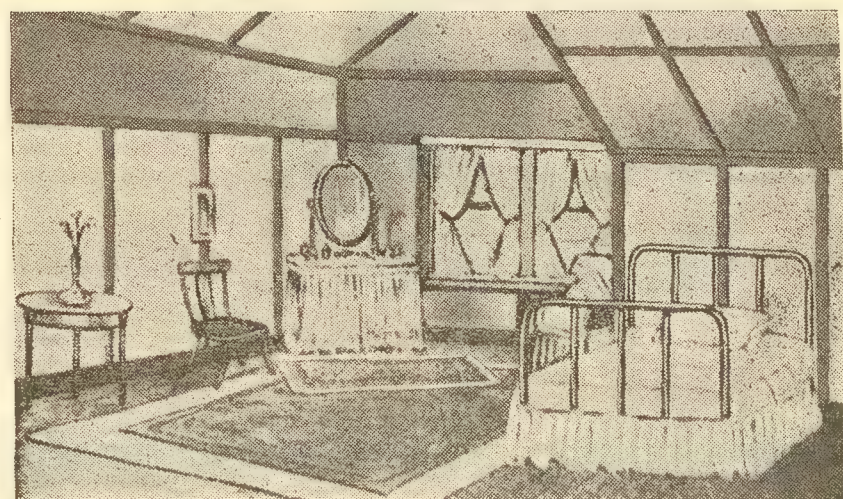
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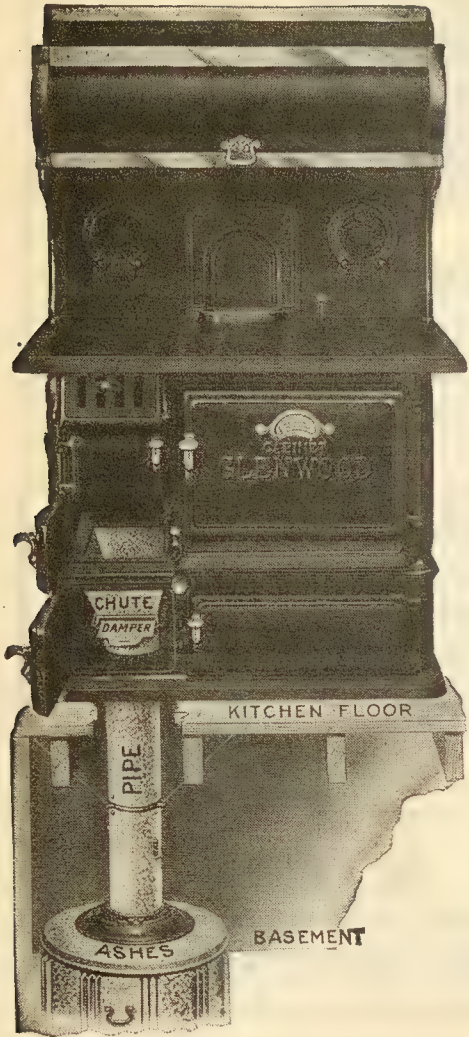
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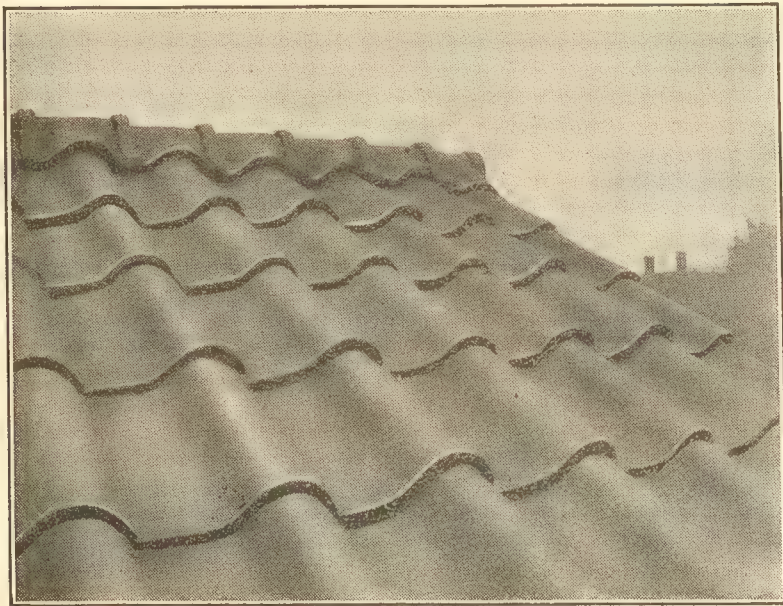


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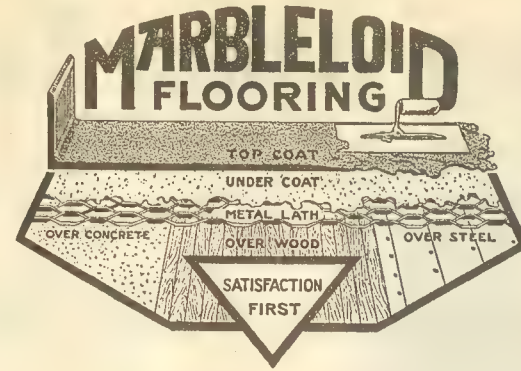


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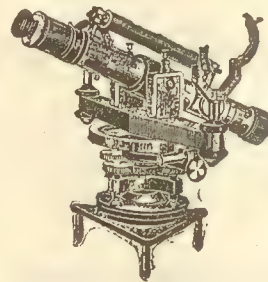
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 28

PHILADELPHIA
July 11, 1917

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FORMERLY

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and Builders' Guide
PUBLISHED WEEKLY

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As The Editor Sees It



THIS number of THE GUIDE is the *Semi-Annual Building Statistics Number*, dealing with local structural activities of every description for the period covered by the first half of 1917. On another page will be found a detailed report, compiled from official figures, showing the total expenditures for all classes of building from January 1st of this year up to and including the close of June. The report shows the number of permits used, by months, in the various classes of construction; the number of operations in each class; the total expenditure in each class, the grand total of expenditure for the half year; the number of additions, alterations and repairs with the amounts expended and a detailed record, by wards, of dwelling house operations.

Reviewing this report as it compares with one before me, showing the official figures for the entire twelve months of 1916, I am impressed with the fact that in spite of the depression in the building field, incident to the war, and notwithstanding the labor scarcity, the uncertainty regarding deliveries in some lines, and the advancing cost of material, 1917 is able to show up uncommonly well.

* * *

FOR example, there was expended during the twelve months of 1916 for building work of all kinds the total of \$49,896,570. The first six

months of 1917 show a total expenditure of \$20,531,220.

In new work exclusively, 1916, entire year, showed an expenditure of \$41,550,775. The first six months of 1917, in the face of all kinds of discouragements, shows an expenditure in new work exclusively, of \$15,908,225. In the matter of factories 1916 showed for the entire twelve months a total expenditure of \$5,515,590. The first six months of 1917 shows an expenditure in factory construction of \$5,416,225. There were built during the twelve months of 1916 a total of 878 garages involving a total outlay of \$1,307,340. During the first six months of 1917 there were constructed 470 garages at a cost of \$664,470. The heaviest fall-offs, aside from operation dwellings is registered in the returns on office buildings and warehouses. In 1916 a total of 36 office buildings went up at an outlay of \$1,867,690 as against 23 office buildings for the first half year of 1917 at a total outlay of \$370,930.

Twenty-six warehouses were built in the first six months of 1917 at an expenditure of \$494,400 as against fifty-four constructed in the twelve months of 1916 at a cost of \$2,881,215. It should be kept in mind in reviewing the figures here given that while those quoted for 1916 are necessarily based on the returns only from January to June. A very mild spurt of activity, within the next few months, would suffice to send

the figures for 1917 up to the levels of last year.

* * *

THE most noticeable drop has taken place, as was quite natural, in the construction of two and three-story operation dwellings. Operative builders have been practically inactive this year, due to a feeling that material prices would sooner or later return to normal figures and admit of building upon something like the old scale of costs. This, it is now plain to everybody in the trade, is a forlorn hope. Material prices are up to stay—for some time to come. Incidentally there is a decidedly healthy and growing demand for houses, so the outlook now is that activity in this line is due for an early resumption. However, the first six months of 1916 show that 4,413 two-story and 307 three-story dwellings were constructed. Six months of the present year show 1,930 two-story and 219 three-story dwellings.

Viewed by and large and with the proper allowance for conditions, the returns for the first six months of the present year are altogether encouraging. There is every reason to believe that with labor conditions at all easy and deliveries, particularly of structural steel, in a position to be figured safely, 1917 will show figures for the year worthy of Philadelphia's past record a great building center.

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.

125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086 KEYSTONE PHONE, MAIN 437

**BLUE
PRINTS**

I HAVE before me as I am writing a survey of the New York realty and building field that appeared in the *New York Evening Post* of Saturday last. It is so true of conditions, generally, that I am moved to quote a few of its more salient paragraphs.

Speaking of the New York realty situation the writer says:

"Optimism is the prevailing keynote of the realty situation in this city. While the market is not overburdened with business, enough is being done—considering the period of the year and the abnormal conditions—in one manner or another to keep the average person interested in real property in an optimistic mood as to the present and the future.

"More and more money is coming into the market for investment in mortgage loans, and in consequence the restoration of confidence in the general situation is keeping pace. The final adjustment of the Liberty Loan, on which 18 per cent. was paid the Government this week, and which money was deposited in banks, leaves prospective investors in a clearer atmosphere of what they may now do in the matter of employing their idle capital."

* * *

ONE of the factors making for the comparative calm in realty is the practical clean-up of all the private houses that until recently were upon the market like drugs, though labeled at the most attractive prices possible. Buyers with foresight have gobbled up all such offerings. This is pretty generally the condition of all property, and the depleted attractions are not being replaced by other cheap offerings, all of which bespeaks the strengthening character of the market, and, moreover, there is but the scantiest probability of even a partial replacement of the recent bargain properties. As a matter of fact, the next crop of buyers who will go into the market for propositions will have to pay more for their properties, and those to follow will pay still higher prices, unless all signs of an upward trend now prevailing are most unexpectedly reversed.

"An upward revision of prices is inevitable, because of the lack of new construction. Even now the demand exceeds the supply, and as the probability for new building is very remote, the demand in consequence will grow still greater, considering the natural increase in population.

"It is a generally known fact that new construction for the future is entirely out of all proportion to the actual current needs of the city, and that what new building there is under way, is not going to make any appreciable impression upon the demand. Moreover, it is not expected that builders now working upon new buildings can be induced to under-

take other operations, when they complete those they have on hand, because of the trying times they have experienced with them. Especially so because of the difficulty in getting materials."

* * *

HIGH prices, too, have an important bearing upon the general attitude of builders regarding future construction, and that phase naturally will deter many operations so long as it continues. The holding of current high prices for structural materials is anticipated by all at least during the period of the war and perhaps for a long time after that. Meanwhile the Government is pre-empting considerable materials for its war plans and that activity is bound to sustain prices while it lasts and thus keep the building trades in a state of doubt. All of this points to the maintenance of values of existing buildings, and with excellent prospects for a rise in prices.

"Speculative building may be said to be at a standstill and with no indication of an early resumption, while construction by individuals for immediate needs depends largely upon the urgency of their situation."

* * *

I WAS talking the other day with a West Philadelphia operative builder who had the courage to disregard the finger-posts of pessimism and go ahead with an operation of high class dwellings. He tells me that sales are better than he has known them to be in many years at prices considerably in advance of those normally scaled to the class of house he is erecting. He anticipates little difficulty about selling off the entire operation and expects to break ground for a new batch of houses just as soon as the present lot is off his hands. Real estate men are simply clamorous for houses. They report the demand exceeds anything they have ever known. What seems to be necessary chiefly in the operative field is a little, old-fashioned nerve. Money is plentiful, work is good, wages are high and buyers with money are looking for houses. If the operator can't see the wisdom of meeting the demand in spite of conditions he is lacking in the business elementals.

* * *

THE garage question is an acute one in many cities. Prudence requires the garage to be of fireproof construction. The scarcity of steel renders compliance with modern regulations more or less difficult. New York's experience with this phase is practically typical, writes *A. L. Libman*, a well-known New York architect:

"The vast number of automobiles in use in the city of New York, both for pleasure and for commercial use, have created an abnormal demand for garages, and with high prices in the steel and

material markets, as well as the extraordinary demands for labor, an acute situation has arisen, greatly augmented by the zoning resolution, which prohibits the erection of garages in residence or business districts, excepting in certain cases, on appeal to the Board of Appeals, and it became necessary that action be taken by the Board of Aldermen to relieve the situation. Furthermore, the enactment of the Building Code provided that all garages, except in suburban districts or outside of the fire limits, be built fireproof, in the event that they were in excess of forty feet in height; and the Code of Ordinances provided that all garages should be made fireproof, excepting that one- and two-story garages might have non-fireproof roofs, covered with fire-retarding material.

"While many garages have been built during the past twelve years, in a strictly fireproof manner, it has been the custom to a great extent to convert existing stables so as to make them suitable for the storage of automobiles. About ten years ago, the Building Department had charge of the construction of all types of buildings, and the Bureau of Combustibles had sole jurisdiction as to occupancy, and permits were issued for many garages, built under the prevailing regulations, in which the floors, ceilings, partitions, stairs, and windows were non-fireproof."

* * *

WHEN the Fire Prevention Bureau was created, it was decided not to issue any permits for garages until the floors, ceilings, partitions, and rear and side windows were made fireproof, and violations were served on owners not complying with these and other conditions of a similar nature, and permits were refused for garage occupancy in such cases. This inflicted great hardship on owners and tenants, and the Fire Revision Bureau had difficulty in enforcing its regulations. Restraining injunctions were obtained against the bureau, and because of these injunctions the bureau permitted many garages to exist without permits.

"After the enactment of the new Building Code, and until November 28, 1916, permits were regularly granted and the right of occupancy was not questioned where the precepts of the Fire Prevention Bureau were obeyed with respect to the use of fire retarding materials, and compliance with the violations heretofore served on these buildings. At that time the authority of the Fire Prevention Bureau was questioned, and it was determined that no permits would be granted unless all garages were fireproof in every particular as provided for in the new code. Prior to the enactment of the Lockwood-Ellenbogen bill, creating the Board of Standards and Ap-

peals and the Board of Appeals, vested with jurisdiction with respect to all construction in the Bureau of Buildings, and several of the Superintendents of the Building Departments refused to grant any permits for alterations or new buildings, excepting they were made fireproof. This was in line with the provisions of the Building Code, but in contradiction to the Code of Ordinances, Chapter 10, relating to explosive and hazardous trades.

* * *

WITH a desire to relieve this situation, and in view of the fact that a vast loss would be entailed by owners and tenants of garage property who obeyed the various orders of the Fire Prevention Bureau and the other constituted authorities, an effort was made by Vice-Chairman Moran, of the Board of Aldermen, to have the Board pass an ordinance which would provide proper safeguards and still permit the use of this class of property for the purpose for which it had been altered or erected. There were several hearings on this proposition. Civic bodies, including the joint committee, representing the American Institute of Architects and the Building Trades Employers' Association, as well as all persons interested, were freely consulted, and, as a result, a public hearing was finally held by the Committee on Buildings on Friday, June 15. At that hearing the ordinance about to be presented to the Board of Aldermen was submitted, and there were a great number of conflicting opinions voiced, especially in relation to the essential provisions of the ordinance relating to the erection of non-fireproof garages and to the final clause:

"All existing garages shall comply with the requirements for buildings hereafter altered for use as garages, unless waived by the Fire Commissioner."

* * *

THE ordinance also required that in two-story buildings, while non-fireproof construction might be permitted on the second floor, with fire-retarding materials applied, the first tier of columns had to be fireproofed, and this would have involved the shoring of the second tier and a vast amount of other labor and expense. Chairman William P. Kenneally finally suggested that a special committee be appointed, and that this committee submit to the Committee on Buildings of the Board of Aldermen on Friday, June 22, an ordinance which in their opinion would meet the situation. On that date there was submitted the final draft, which, with minor corrections, will be acted upon by the Board of Aldermen on Tuesday, July 3.

"The final draft permits the erection

of four-story non-fireproof garages, not exceeding fifty feet in height, subject to fire-retarding rules, to be subsequently adopted by the Board of Standards and Appeals. Existing buildings may also be altered under the same conditions prescribed for new buildings. Garages heretofore erected, and complying with the rules of the Fire Prevention Bureau, and for which that Bureau had issued permits, are legalized. In all events, all other provisions of the Building Code must be adhered to, especially in relation to garages covering large areas.

"In connection with the proposed ordinance, it must be remembered that garages could only be erected in locations permitted by the building-zone resolution, or in locations approved by the Board of Appeals, after a public hearing, conducted under the requirements of the law. A vast number of buildings heretofore used as stables may possibly be converted into garages, in the event of the enactment of the ordinance, and provided that they conform to article 2, section 6, class 2, of the building-zone resolution, permitting the reconstruction

or structural alteration of an existing building to an extent not greater than 50 per cent. of the value."

* * *

THE peculiar architectural treatment, demanded by the zoning law in New York City restricting the heights of perpendicular facades, is to be noted in the revised plan of the *Hotel Commonwealth* in that city. The building is stepped back as it ascends after a fashion that recalls the architectural ideas of the cliff-dwellers. In the instance under notice, the effect is anything but pleasing, although it may be that a scheme of design will yet be worked out to relieve the piled-block impression of the series of receding flights required by the new regulations. Graceful terraces, with roof gardens, break what would otherwise be a cubist nightmare, but the ensemble is, for all that, hardly agreeable. We are judging it, it should be said, from the architect's sketch. It is quite possible, of course, that the actuality may convey much more of grace and artistry than are there revealed.

EDITORIAL NOTES

The annual convention of the Pennsylvania State Association of Architects was held at Harrisburg. The Association pledged itself to conduct an investigation among the presidents of the thirty-seven universities of the United States, conferring degrees in architecture, on their attitude toward conducting more popular lectures on the subject of architecture and on other ways and means calculated to make architecture a part of a liberal education. Officers were elected as follows: Albert Kelsey, president, Philadelphia; Frederick A. Russell, vice-president, Pittsburgh; W. A. Plack, secretary, Philadelphia; M. I. Kast, treasurer, Harrisburg.

* * *

The A. B. See Electric Elevator Company, formerly at 1007 Land Title Building, Philadelphia, have removed their offices to 507-508 Colonial Trust Building, Thirteenth and Market streets. George T. Atkinson is the manager in charge of the local office. The new Colonial Trust Building has been equipped by the A. B. See Company with three traction passenger elevators of the latest and most approved type.

* * *

The bank clearings of the United States for the year ending October 1st last were \$261,000,000,000. These figures reflect a very large part, but certainly not all of the business activities of the United States. Our national wealth is now roughly estimated to be in the near neighborhood of two hundred and thirty billion dollars, an amount not very far away from the sum of the yearly bank

clearings reported last fall. The annual yearly income of all of the people of the United States now amounts to about \$37,000,000,000. The agricultural products alone amount to about \$9,000,000,000, and the entire Liberty Loan could be deducted from the proceeds of our agriculture, and still leave \$7,000,000,000.

* * *

We have been hearing so much about the difficulties of placing our \$2,000,000,000 of war bonds, that a comparison of our financial strength with what is being done in Great Britain ought to be illuminating and profitable at this time. The national wealth of the United Kingdom in December, 1915, was estimated at \$73,000,000,000, and the national income was placed at \$15,000,000,000. The war budget of France for three months of war is announced at nearly \$2,000,000,000, and it has excited no special comment in that country. Figures are not at hand to show the present estimate of the national wealth of France or the amount of the annual income. It will be fairly safe to state that the figures are well below fifty per cent. of that of Great Britain, and therefore it seems reasonable to place the figures of our national wealth at approximately twice that of the aggregate wealth of Great Britain and France together. The war outlay of those two countries now runs above thirty-six millions a day, or in round figures, fifteen billion dollars a year, and yet we hear no word of complaint from the other side.

* * *

The Electrical Contractors' Association of

Pennsylvania held its annual convention and electrical show in the Hotel Adelphia, Philadelphia. Among the speakers were J. B. McCall, president Philadelphia Electric Company, who spoke on "The Central Station's Message;" Washington Devereaux, chief Philadelphia Underwriters' Electrical Department, "The Practical and Ethical Aspects of the Electrical Business;" J. W. Hooley, contracting electrical engineer, New York, "The Necessity for Competent Estimating;" Frank H. Stewart, F. H. Stewart Electric Company, Philadelphia, "The Manufacturer's Territorial Sales Agency;" H. W. Alexander, of the Society of Electrical Development, "Selling the Electrical Idea," and C. M. Ripley, "Floodlighting." M. Edwin Arnold, Philadelphia, is president of the association, and M. G. Sellers, Philadelphia, is secretary-treasurer.

* * *

The Equitherm Control Corporation is the new name of the Geissinger Regulator Company, New York. The company's office is 30 Church street, and its factory at 203 Greenwich street.

* * *

Among the members of the Red Cross Commission which is going to France to study relief needs of every kind are Mr. George B. Ford, associate editor of the City Planning Department of the "Journal of the American Institute of Architects," and Mr. William Emerson, president of the New York Chapter and a member of the Institute Committee on Publications. Mr. Ford will consult with the French authorities in regard to rebuilding problems and will be the planning expert attached to the commission.

* * *

The president of the society was recently asked the following question by the advertising manager of a large manufacturing concern, says the "Monthly Bulletin of the Illinois Society of Architects: "Why do not architects answer letters of inquiry from manufacturers?" The answer was the statement that, "Every architect receives on an average of twenty letters per day, not accompanied by either a return post card or a stamped envelope, asking for information when there is work on the boards. Assuming that every architect was busy the entire time, it would mean that every architect would be expected to answer, say 20 letters of inquiry per day, or 6,000 per year, and as no letter can be written at a less cost than about 20 cents, counting postage, stationery, time and overhead, every architect would be expected to spend the sum of \$1,200 per year in answering these inquiries if they were answered." Is further comment necessary?

* * *

Mr. W. Fred Locke, Jr., of Lockwood, Greene & Co., Boston, Mass., writes in the Industrial Building issue of the "American Architect:"

"Any one who has followed the changes in modern industrial methods is familiar with the new attitude of the up-to-date factory manager in regard to fireproof construction.

No longer is it merely a question of getting the most advantageous insurance rate; it is a question of life itself. The manufacturer now says, 'a disastrous fire in my plant would practically put me out of business. Fire insurance would never repay me for the loss of business, loss of prestige, least of all for the certain loss of skilled operators. The struggle to rebuild and to re-equip a new plant, to train a new force of employees, to get back lost business in these days of strenuous competition, would require an outlay of capital and efforts which would be beyond my resources.'

"An abundance of daylight is now an accepted essential in factories. In fact, any added expense that may be necessary within reasonable limits to procure a full measure of natural light will be justified. Well-lighted work rooms unquestionably make for good health, relieve eye strain, tone up a working corps, insure a better product with less weight and reduce the hazard of accidents."

* * *

The contract for the huge new army cantonment at Yaphank, L. I., has been awarded to the Thompson-Starrett Company, 49 Wall street, New York City, which has already begun work, and is making good progress in preparing the site for the proposed army buildings. The project will involve an outlay of between \$3,000,000 and \$4,000,000. Other army cantonment contracts throughout the United States have been awarded as follows: At Rockford, Illinois, to the Bates & Rogers Construction Company, 37 Van Buren street, Chicago, Illinois; at Des Moines, Iowa, to Charles Weitz & Son, of Des Moines; at Annapolis Junction, Maryland, to Smith, Hauser & M. F. McIsaac, Inc., 18 East Forty-first street, Manhattan; at Little Rock, Arkansas, to Charles Stewart & Co., 30 Church street, Manhattan; at Chillicothe, Ohio, to A. Bently & Sons, Toledo, Ohio; at Battle Creek, Michigan, to Porters Brothers, Detroit, Michigan; at Louisville, Kentucky, to Mason & Hangar, Richmond, Kentucky; at Fort Riley, Kansas, to the George A. Fuller Company, Kansas City, Missouri; at Fort San, Houston, Texas, to Stone & Webster, 147 Milk street, Boston, Mass., and at Petersburg, Virginia, to Rinehardt & Dennis, Charlottesville, Virginia.

* * *

A total of \$765,000,000 in gold is stored in the United States Assay Office in Wall street, more than ten times the normal average in previous years.

* * *

The remarkable development of the suburban districts surrounding New York is exemplified in the experience of a prominent development company within the last generation. In 1897 land which was worth \$1,500 an acre is now being sold close to \$15,000, and houses which formerly brought \$500 a year are now returning more than \$1,000 to their owners.

* * *

Cumulative evidence is massing rapidly to the effect that the construction of new build-

ings of a private and semi-private nature is growing more active daily and that the outlook in the building field is now more satisfactory. Authoritative reports emanating from various sections of this country are almost optimistic and the mental attitude of the building interests generally is one of wider vision and increased hope. Recent communications from the outlying districts of New York State and New Jersey indicate that many counties, municipalities and smaller communities are proceeding with construction work that has been held in abeyance for a long time. This type of activity includes the construction of roads, sidewalks, sewers, bridges and culverts, and the erection of new public buildings and extensive alterations and additions to existing structures. The movement is significant of the expenditure of immense sums of money during the summer months for work of this character.

* * *

While there is no prediction possible as to the probable end of the conflict abroad, active preparations are in progress for the reconstruction of the devastated towns and villages in Belgium and Northern France. Following the return of the American Commission to France a report was published that there is an unquestioned demand developing for portable temporary buildings and materials for the construction of permanent buildings, including factories, schools and residences. The inquiries for structural specialties will also be strong and will include metal ceilings, window and door frames and sash, cement, lumber, rolled steel, basic clay products and other types of building supplies. All types of structural materials will be welcomed that will have a tendency to facilitate rapid construction. The demand is likely to continue for a long period, as it will be many months before the countries engaged in the war will be in a position to manufacture the materials required, so the greatest portion of the supply will of necessity have to be forwarded from the United States.

* * *

The analysis of the occupational mortality experience of the Metropolitan Life Insurance Company, as published recently by the Bureau of Labor Statistics of the United States Department of Labor, is interesting as indicating the causes of death by occupation. The largest single group is "laborers," forming 11.4 per cent. of the total. More definite occupations are represented in considerable numbers, such as clerical employees, farmers and farm laborers, and persons engaged in the various building trades in iron and steel work, and in the railway service. Deaths among carpenters total 4.2 per cent. of the total; painters, paperhangers and varnishers, 2.9 per cent.; janitors and building employees, 1.9 per cent.; masons and bricklayers, 1.9 per cent.; plumbers, gas fitters and steam fitters, 1.2 per cent.; iron and steel mill workers, .8 per cent.; cabinet and furniture workers, .8 per cent.; tanners and tinware workers, .7 per cent., and electricians, .6 per cent.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory, 912-16 Westmoreland street, Philadelphia. Architect not selected. Owners, Hohlfeld Manufacturing Company, Tenth and Allegheny avenue, Philadelphia. Brick, 3 or 5 stories. Work contemplated.

Industrial Plant, Twentieth and Cambria streets, Philadelphia. Architects, Wm. Steele & Sons Co., 30 South Fifteenth street, Philadelphia. Owners, H. Belfield Company, 435 North Broad street, Philadelphia. Reinforced concrete and brick. Factory building, 5 stories, 280x100 feet; foundry building, 1 story, 280x100 feet; storage warehouse, 1 story, 280x100 feet; power plant and garage, 1 story (size undecided), slag or composition roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, ornamental iron work. Plans in progress.

Apartment House (alts. from residence), Nineteenth and Mt. Vernon streets. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owner, J. Reno, care of architect. Brick and concrete, 3 stories, add. 30x20 feet, slag roof, hardwood floors, electric lighting extension, galvanized iron skylights, fire tower. Architect taking bids, due July 16th. Freund Const. Co., Bulletin Building; Lam Building Co., 1001 Wood street, and Conneen Const. Co., 1737 Filbert street, are figuring.

Garage (alt. and add.), 118 Queen street. Architect, David A. Supowitz, 1118 Chestnut street, Philadelphia. Owner, A. Miles, on premises. Brick, 1 story, 36x92 feet, consists of general alterations, new brick walls, slag roof, cement floors, electric lighting, gasoline storage system. Architect taking bids. F. Nardy & Co., 1228 Fitzwater street, and Conneen Const. Co., 1737 Filbert street, are figuring.

Hotel and Restaurant (remodeling), 215 S. Broad street, \$50,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Daniel J. Kopp, 5355 Baltimore avenue, Philadelphia. Brick, stone, steel and terra cotta, 4 stories and basement, 20x98 feet (plumbing, heating, electric work and 2 elevators reserved), hardwood, cement and composition floors, tile, marble and terrazzo work, fire doors, metal lath. Plans completed. Architect about ready for both general and sub-bids on all lines.

Sales and Storage Building (alt. and add.), 1911 Chestnut street, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Joseph Habisreiter, 1604 Chestnut street, Philadelphia. Brick and terra cotta, 4 stories and basement, 25x178 feet, and two-story addition, 45x40 feet, slag roof, cement and pine floors, tile and marble work, metal lath (plumbing, heating and electric work reserved). Plans about completed. Architect will take bids in a few days.

Northeast Sewage Treatment Works, Richmond street, north of Wheatsheaf lane. Archi-

teet, private plans. Owners, City of Philadelphia, Bureau of Surveys, Department of Public Works, City Hall, Philadelphia. Consists of 32 rectangles, reinforced concrete, 2 stories, sedimentation tanks, 80 sludge drying beds and appurtenant work. Owners taking bids, due July 18th at noon. Inquire at Room 534 City Hall.

Church and Sunday School, Palethorp and Clearfield streets, \$80,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Palethorp Memorial Presbyterian Church, care of Wm. H. Scott, 1211 Clover street, Philadelphia. Stone, brick, 1 story and basement. Plans completed. Architect ready for bids.

Church (alt. and add.), Woodbine avenue and Sixty-third street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owners, Our Lady of Lourdes R. C. Church, Rev. James H. Mullen, on premises. Stone, new stone walls, cement floors, mill work, waterproofing. Architects have received bids.

Residences and Garages (14) (7 pairs), Washington lane and Limekiln pike, Philadelphia. Architect, E. Allen Wilson, 1218 Chestnut street, Philadelphia. Owners, Model Building Co., care of Henry Kummerle, Morris Building, Philadelphia. Stone, brick, 3 stories, 16x50 feet, slate roofs; garages, 1 story, 12x16 feet, asphalt shingle roof, hot water heating, electric lighting, tile and marble work, oak and cement floors. Owners taking sub-bids on all lines.

Stable, Garage and Repair Building, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, 1 story, 99x239 feet, asbestos roof, cement and wood floors, steam heating, electric lighting, rolled steel sash, fire and hollow metal doors, ornamental iron work, roof ventilators, gasoline storage system. Owners taking bids, due July 16th. Irwin & Leighton, 126 N. Twelfth street, and McCloskey & Bahls, 1620 Thompson street, Philadelphia, are figuring.

Engine House (add.), Ninth and Noble streets, Philadelphia. Architect, private plans. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick and steel, third story addition, 74x34 feet, slag roof, plank floors (lighting and painting reserved), fire doors, iron stairs. Owners have received bids.

Store and Dwelling, Harrison and Oakland streets, Frankford. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Harry C. Zersig, care of architect. Brick and plaster, 2 stories, 21x65 feet, asbestos shingle roof, hot water heating, electric lighting, tile work, marbleoid and hardwood floors. Architect taking bids, due July 16th at noon. H. C. Zingraf, 2024 North Marshall street; Rush Bros., 1104 Fillmore street; John C. Fotheringham, 3367 Frankford avenue; C.

West & Co., Oxford and Wakeling streets, and H. E. Sweger, 4435 North Uber street, and Jos. A. Hand, 8029 Frankford avenue, are figuring.

Elevated Stations (5), Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Room 574, Bourse Building, Philadelphia. Brick, stone, steel, concrete and terra cotta, 3 stories and basement, slag roofs, cement floors, hollow tile, marble, tile and terrazzo work, rolled steel sash and skylights, fire doors, ornamental iron work, metal lath, safety treads, roof ventilators, metal ceilings (plumbing, electric work and elevators separate bids, contracts Nos. 622-623), hollow metal doors, iron stairs and hollow metal sash. Owners have received bids.

Apartment House, Redfield and Chestnut streets, Philadelphia. Architect, Arnold Eberhard, Crozer Building, Philadelphia. Owner, Charles A. Mory, 424 North Fortieth street, Philadelphia. Brick, terra cotta trim, 4 stories, 37x76 feet, slag roof, steam heating, electric lighting, tile work, hardwood floors, fire doors, metal lath, roof ventilators. Plans about completed. Architect ready for sub-bids.

Residence (alt. and add.), 526 W. Horrtter street, Germantown. Architect, private plans. Owner, Lewis H. Chase, West Bells Mill road, Chestnut Hill, Pa. Stone, 2 stories, consists of interior alterations and small rear additions. Owner will take bids.

Toilet and Wash Room, Third and Allegheny avenue, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Bernstein Manufacturing Co., on premises. Brick, basement addition, 28x34 feet, steam heating, plumbing, cement floors, metal lath (electric work reserved by owners). Architects have received bids.

Manufacturing Building (add.), 5432 Lancaster avenue, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Niagara Manufacturing Co., 323 N. Second street, Philadelphia. Brick (slow burning), 1 story and basement, 80x80 feet, irregular, composition roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights. Architect has received bids.

Rectory, Holmesburg, Philadelphia. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner's name withheld. Stone, 3 stories, 24x50 feet, slag roof, pine and cement floors, metal lath (steam heating reserved), electric lighting, tile and marble work. Architect has received bids.

Stable (alt.), 1026-32 Fairmount avenue, Philadelphia. Architect, private plans. Owners, National Metal Edge Box Co., 1231 Callowhill street. Brick, consists of general interior and exterior alterations. Owners will build.

Stores (13) and Apartments (20), Twentieth and Tioga streets. Architects, Hewitt &

HEATING

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Philadelphia, Pa.

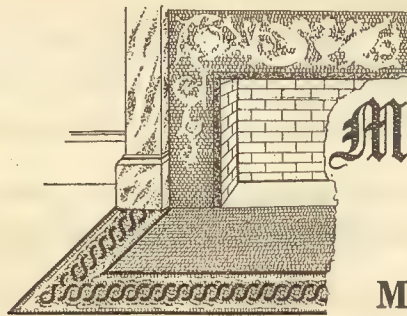
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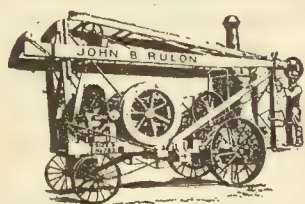
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Granger, 131 South Fourth street, Philadelphia. Owner's name withheld. Brick and frame, 2 stories and basement, size of lot 157 x 230 feet, slag roof, steam heating, electric lighting, pine and cement floors. Merton W. Greims, Liberty Building, taking bids, due July 13th. Wm. H. Eddleman & Sons, 453 Green lane, Roxboro, Pa., are figuring.

Residence (alt. to Apartment House), 1330 North Fifteenth street, Philadelphia. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owner's name withheld. Brick, 3 stories, consists of general interior and exterior alterations, add. 3 stories, brick, 15x15 feet, slag roof, hot water heating, electric lighting, plumbing, tile work. Plans about completed. Architect will take sup-bids in one week.

School, west side of Madison street, Philadelphia. Architect, Louis H. Ciele, 1123 Broadway, New York City. Owners, St. Adalbert's Parish, Rev. M. Monkiewicz, 2645 East Allegheny avenue. Reinforced concrete and brick, 3 stories, 44x64 feet, and 1 story, 21x27 feet, slate or slag roof, pine and maple floors, hollow tile, metal ceilings, steam heating, electric lighting, marble and terrazzo work, hollow metal skylights, fire doors, iron stairs, ornamental iron work. Owners taking bids, due July 17th. Melody & Keating, 1322 Race street, are figuring.

Office Building (int. alt.), 315 Arch street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Charles E. Schmidt, 327 Arch street, Philadelphia. Consists of interior alterations to third floor, office partitions, electric lighting, hollow metal sash, metal lath, mill work. Plans completed. Architect ready for bids in a few days.

Schools (2) (alt. and add.), Philadelphia. Architect, J. Horace Cook, Nineteenth street, above Chestnut street, Philadelphia. Owners, City of Philadelphia, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, hollow tile, metal lath, fire doors, cement and maple floors, plumbing, plastering, new counters, partitions, mill work, painting. Low bidders: Holmes School, Fifty-fifth and Chestnut streets (alt. and add.): E. C. Durell,

1713 North Twenty-fourth street, \$4,087; Mitchell Bros., 2125 Race street, \$6,890. Holmes School, Fifty-fifth and Chestnut streets (High School equipment): William Christy & Co., 2202 South Broad street, \$4,787; George E. Lucas, 2636 North Hutchinson street, \$5,200. Elwood School, Oak Lane avenue, west of Twelfth street (sanitary improvements): George Dobbin & Co., 414 S. Forty-first street, \$4,889; E. C. Durell, 1713 North Twenty-fourth street, \$4,986.

Store and Apartments (alt. and add.), 219 South Broad street, \$50,000. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, W. E. Adams, on premises. Brick, stone and terra cotta, 4 and 3 stories, 35x133 feet, consists of general alterations and changing upper floors into sleeping apartments. Plans in progress.

Sales and Service Building (alt.), 672-674 North Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Samuel Gorson, 238 North Broad street, Philadelphia. Reinforced concrete and brick, 4 stories, consists of extensive alterations. Plans in progress.

Cabin (D 5), Gray's Ferry Road, Philadelphia. Architects, Maintenance of Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Hollow tile and stucco, 2 stories, 18x14 feet, slate roof, cement floor, ornamental iron work. Revised plans in progress.

Residence (alt.), 2022 De Lancey street, Philadelphia. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, Hiram H. Potts, 1834 Spruce street, Philadelphia. Brick, 3 stories, tin roof (heating, plumbing and lighting reserved), cement and pine floors, tile work, hollow tile, metal window guards, waterproofing, wire work, ornamental iron work. Architects taking bids, due July 14th. Frank E. Wallace, 1220 Chancellor street; R. C. Ballinger & Co., 218 North Thirteenth street; J. Morris Daniels, 252 South Juniper street, and Wm. R. Dougherty, 1610 Sansom street, are figuring.

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Willow streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, A. Colburn Co., 110 North Second street, Philadelphia. Reinforced concrete and brick, 8 stories. Architects taking bids, due July 18th at noon. Cramp & Co., Denckla Building; Irwin & Leighton, 126 North Twelfth street; Barclay White & Co., 1713 Sansom street; Warren, Moore & Co., Colonial Trust Building; Turner Concrete Steel Co., 1713 Sansom street; F. W. Mark Const. Co., Finance Building; H. E. Baton, 1713 Sansom street; Melody & Keating, 1322 Race street; Ault Const. Co., Widener Building; J. R. Wiggins & Co., Otis Building, and Ketcham & McQuade, 1029 Brown street, are figuring.

Residences (2) (Twin), Cottman street and Tabor avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Robert Winkler, 3128 Custar street, Philadelphia. Stone, brick and frame, 2 stories, 16x41 feet, asphalt shingle and slag roof, hot air or hot water heating, combination lighting, yellow pine and parquetry floors. Architect taking bids, due July 21st. Wilson Milnor, 4634 Penn street, Frankford; H. E. Sweger, 4435 North Uber street, and John C. Fotheringham, 3367 Frankford avenue, are figuring.

Ice Plant, southwest corner of Tenth and Callowhill streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, American Ice

Co., Sixth and Arch streets, Philadelphia. Reinforced concrete and brick, 2 stories. Plans in progress. Too early for details.

Apartment House, Redfield and Chestnut streets, Philadelphia. Architect, Arnold Eberhard, Crozer Building, Philadelphia. Owner, Charles A. Mory, 424 North Fortieth street, Philadelphia. Brick, terra cotta trim, 4 stories, 37x76 feet, slag roof, steam heating, electric lighting, tile work, hardwood floors, fire doors, metal lath, roof ventilators. Architect taking bids, due July 17th. Stacy Reeves & Sons, 2011 Market street, and Ketcham & McQuade, 1029 Brown street, are figuring.

Apartment House (alt. and add.), 3411 Race street, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building. Owners, Stein Realty Co., 3409 Race street. Brick, 3 stories, 20x118 feet, fire tower addition, slag roof, pine and hardwood floors, tile and marble work, metal lath, steam heating, electric lighting. Architect taking bids, due July 14th, from Philip Haibach Cont. Co., Twenty-sixth and Thompson streets, on carpenter and mill work, masonry and roofing. Ready for sub-bids, due as soon as possible, on all other lines.

Loft Building, 117-19 North Tenth street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Snyder & Co., 134 North Tenth street, Philadelphia. Brick (slow burning), 5 stories, 32x105 feet, slag roof, cement and maple floors. Plans in progress.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Dwelling (alt. and add.), 1410-12 Point Breeze avenue. Architect, Herman Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Tollen, on premises. Brick, 1 story, 32x12 feet, slag roof, electric lighting, tile and marble work, yellow pine and hardwood floors (heating reserved by owner), metal lath, plastering, hollow metal skylights, metal ceilings. Contract awarded to Isaac Seidman, 1324 South Fourth street, Philadelphia.

Service and Sales Station, southeast corner of Twenty-fourth and Fairmount avenue, \$15,000. Architect, private plans. Owner, James Finnessey, Twenty-sixth and Parrish streets, Philadelphia. Lessees, Owen Magnetic Car Co., 1835 Chestnut street, Philadelphia. Brick (slow burning), 1 story, 52x100 feet, slag roof, steam heating, electric lighting, rolled steel sash, cement floors. Contract awarded to Herman Voigt, 1251 North Twenty-eighth

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Wash and Locker Room (alts. and add.), Ninth and Westmoreland streets, \$12,000. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Surpass Leather Company, on premises. Brick, stone and reinforced concrete, 1 story, slag roof, cement floor, terrazzo work, fire doors, roof ventilators (heating and lighting reserved), ornamental iron work. Contract awarded to George Kessler Cont. Co., Drexel Building, Philadelphia.

Residence (alt.) 1912 Spruce street, Philadelphia, \$4,500. Architect, Spencer Roberts, 1524 Chestnut street, Philadelphia. Owner, C. Russell Hinchman, Stephen Girard Building, Philadelphia. Brick, new bay window, 3 stories, tin roof, oak floors, tile work, metal lath (heating and lighting reserved). Contract awarded to William J. Gruhler Co., 219 East High street, Germantown.

Loft Building, 212-20 South Quince street, Philadelphia. Architect, Robert Rodes McGoodwin, 1428 Walnut street, Philadelphia. Owner, S. S. White Dental Manufacturing Co., Twelfth and Chestnut streets, Philadelphia. Reinforced concrete and brick, 4 stories, 60x75 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, cement and maple floors, elevators, roof ventilators. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street, Philadelphia.

Caretakers' House and Paving, etc., Queen Park, Philadelphia. Architect, Louis A. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, Room 113, City Hall, Philadelphia. Brick, 1½ stories, 17x13 feet, slate roof, pine floors, cement paving. Low bidders on caretakers' house: Mutual Eng. Co., Franklin Building, \$1,880; Geo. Dobbin, 414 South Forty-first street, \$1,998, and E. C. Durell, 1713 North Twenty-fourth street, \$2,037. Low bidder on paving, curbing, coping, grading, etc., Geo. Dobbin, 414 South Forty-first street.

Tank Supports, Ninth and Westmoreland streets, Philadelphia, \$3,000. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, C. J. Matthews & Co., on premises. Steel and timber. Contract awarded to Robert E. Lamb Co., 1314 Arch street, Philadelphia.

Army Y. M. C. A., Navy Yard, Philadelphia. Architects, Bureau of Construction War Work, Council of Y. M. C. A., 124 East Twenty-eighth street, New York City. Owners, Y. M. C. A., 1425 Arch street, Philadelphia. Frame, 1 story, 40x112 feet and 23x58 feet, rubberoid roof, hot water heating, electric lighting, roof ventilators. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Bungalow, Rector and Houghton streets, Roxborough, \$7,000. Architect, Amos W. Barnes, Hermit and Righter streets, Roxborough. Owner, Joseph Sumner, 4138 Terrace street. Brick, 1½ stories, 33x63 feet, slate or asbestos shingle roof, hot water heating, electric lighting (flooring reserved by owner). Contract awarded to Henry C. Missimer, 8115 Ridge avenue.

Apartment (alt. and add.), 1626 North Broad street, Philadelphia, \$20,000. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, William C. Benckert, Morris Building, Philadelphia. Brick, 3½ stories, fire tower addition (heating reserved), tin roof, pine floors, electric lighting, tile work, ornamental iron work. Contract awarded to H. H. Wehmeyer, 1004 Lehigh avenue, Philadelphia.

Garage, 1322-26 Mount Vernon street, Philadelphia. Architect, private plans. Owner, H. C. Gray Co., 1408 Mt. Vernon street, Philadelphia. Brick, 1 story, 49x92 feet, slag roof, steam heating, electric lighting, cement floors,

hollow metal skylights, gasoline storage system. Contract awarded to Alex. Chambley, 243 South Tenth street, Philadelphia.

Advance Base Storehouse, Marine Barracks, Philadelphia, \$75,194. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, steel and reinforced concrete, 1 story, 130x60 feet, 2 wings 50x120 feet, slag roof, concrete floors, electric lighting, fire and hollow metal doors, rolled steel sash, hollow metal skylights, waterproofing, wire work (heating separate bids). Contract awarded to McClockey & Bahls, 1620 Thompson street, Philadelphia.

Store (alt.), 905-07 Market street, Philadelphia, \$3,200. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Corrsin Bros., 1402 South street. Consists of new front, marble and slate, hardwood floors, composition and yellow pine floors, steam heat, electric light. Contract awarded to Raith Const. Co., 304 Master street, Philadelphia.

Sales and Service Building, 847-49 North Broad street, Philadelphia. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Heymann & Bro., Widener Building, Philadelphia. Reinforced concrete, brick and terra cotta, 3 stories, 46x100 feet, slag roof, steam heating, electric lighting, cement and maple floors, metal lath, elevators,

Residence, Elkins Park, Pa. Architect, D. Knickerbacker Boyd, Otis Building, Philadelphia. Owner, C. J. Milne, Jr., 2029 Walnut street, Philadelphia. Hollow tile and plaster, 2½ stories, 30x47 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Architect has received bids.

Bridge, across west branch of Susquehanna River, between Northumberland and Union Counties, Pa. Architect, private plans. Owners, Commissioners of Northumberland and Union Counties, care of Controller of Northumberland County, Sunbury, Pa. Reinforced concrete, 2,000 feet long. Owners ready for bids, due July 30th. For information apply to office of Commissioners of either county. (Plans, certified check for \$200.00. Bid, certified check for \$10,000.00.)

Residence and Garage, near Downingtown, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, J. Gibson McIlvaine, Jr., Fifty-eighth and Woodland avenue. Stone, first floor, reinforced concrete, 2½ stories, 36x140 feet; garage, 1½ stories (4 cars), slate roof (plumbing, heating, electric

steel doors. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street, Philadelphia.

Wall and Gates, Seventeenth and Cherry streets, Philadelphia. Architect, Walter D. Smedley, Stephen Girard Building, Philadelphia. Owners, Friends' Burial Ground, Seventeenth and Cherry streets, Philadelphia. Brick and stone, 42 feet long, ornamental iron work. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Store and Office Building (fire repairs), 1118-20 Chestnut street, \$13,000. Architect, private plans. Owner, Estate of Wm. Thompson, care of Mears & Brown, 202 South Fifteenth street. Mill work, plastering, painting, rolled steel sash, hollow metal skylights, wire work. Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Engine House (alt. and add.), Delaware avenue and Robbins street. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick and reinforced concrete, 1 story and gallery, 41x18 feet, slag roof, cement floors (heating and lighting reserved), fire doors, waterproofing. Contract awarded to Keystone Paving and Const. Co., 320 Richmond street, Philadelphia.

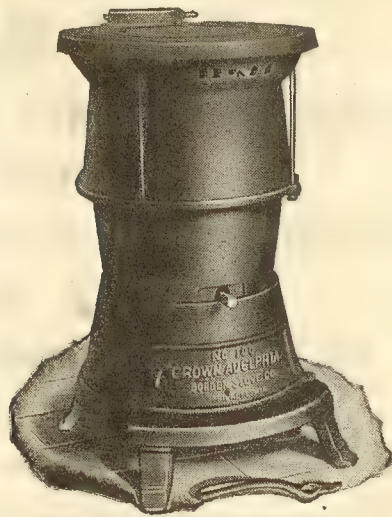
PENNSYLVANIA Construction News

work and gasoline storage system reserved), hardwood and cement floors, tile work, metal work, metal lath. Architects taking bids, due July 11th. Jacob Myers & Sons Co., Witherpoon Building; R. C. Ballinger & Co., 218 North Thirteenth street; J. Sims Wilson Co., 1125 Brown street; Gray Bros., Rosemont, Pa.; Milton W. Young, Overbrook, Pa.; Wm. H. Jones, West Chester, Pa., are figuring.

Court House (alt.), Media, Delaware County, Pa. Architect, Clarence W. Brazer, 1420 Chestnut street, Philadelphia. Owners, County Commissioners of Delaware County, Media, Pa. Consists of marble wainscoting, plastering, metal lath. Owners have received bids.

Poultry Houses, Doylestown, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owners, National Farm School, Doylestown, Pa. Frame, 1 story, 20x100 feet. Plans in progress.

Bank (alt. and add.), Chester, Pa. Architects, Mowbray & Uffinger, 56 Liberty street, New York City. Owners, Penn National Bank, Chester, Pa. Brick, stone and terra cotta, 2 stories, 52x20 feet, slag roof, steam



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Engine House (27 stalls), Reading, Pa. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Twelfth and Market streets, Philadelphia. Reinforced concrete, steel and brick, 1 story, 14x27x32 feet, asbestos roof, cement and wood floors, hollow tile, rolled steel sash, fire doors, wire work. Owners have received bids.

Residence (alt. and add.), Paoli road, near West Chester, Pa. Architect, Edw. S. Paxson, 729 Walnut street, Philadelphia. Owner, C. B. Grau, Haddon Heights, N. J. Stone, brick and stucco, 2 stories, one-story addition, 12x20 feet, tin roof, pine floors, electric lighting, tile and marble work, hollow metal skylights (hot water heating reserved). Owner has received bids.

Turntable, South Bethlehem, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete, steel and timber, 100 feet in diameter (cast iron gate and frame reserved). Owners taking bids, due July 12th. A. L. Carhart, Hale Building; Brann & Stuart, Commercial Trust Building, and C. P. Bower, Emerald street and P. & R. R. R., Philadelphia, are figuring.

Residence (alt. and add.), Whitmarsh, Pa. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Rolling Norris, care of the U. G. I. Co., Broad and Arch streets, Philadelphia. Stone, 2½ stories, shingle roof, hardwood floors, tile work, electric work. Plans about completed. Architects will take bids in a week.

Residence, add. to Gardener's Cottage and Garage, Flourtown, Pa. Architects, Brickie & Hastings, 1713 Sansom street, Philadelphia. Owner, Wm. A. Glasgow, Jr., Real Estate Trust Building, Philadelphia. Brick and

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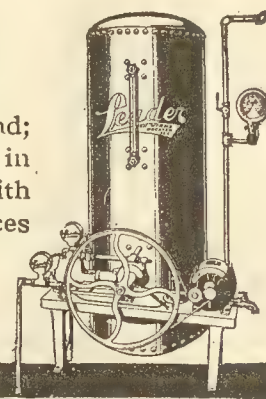
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frame, 2½ stories, 101x35 feet, addition, 2½ stories, 32x17 feet; garage, 2 stories, 50x30 feet, shingle roof, cement, pine and hardwood floors (plumbing, heating, electric work and gasoline storage system reserved), tile and marble work, metal lath, dampproofing. Architects taking bids, due July 18th. Fred Elvidge & Son, 5522 Germantown avenue; Geo. S. Roth & Sons, 220 East Gravers lane; Pringle Borthwick, 8018 Germantown avenue; H. H. Burrell, 206 South Quince street; F. E. Wallace, 1220 Chancellor street, and R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia, are figuring.

Bank (alt. and add.), Thirteenth street, Harrisburg, Pa. Architects, Fahnestock & Raidabaugh, Patriot Building, Harrisburg, Pa. Owners, East End Bank, Thirteenth street, Harrisburg, Pa. Brick, 2 stories, 13x100 feet, steam heating, electric lighting (bank and vault fixtures reserved). Plans in progress.

Open Air School (add. to Harris School), Harrisburg, Pa., \$65,000. Architect not selected. Owners, School Board of Harrisburg, Harrisburg, Pa. Brick, 2 stories. Work contemplated.

Store Building, Harrisburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owner, W. S. Schell, Harrisburg, Pa. Brick and terra cotta, 4 stories and basement, 80x100 feet, composition roof, maple floors, steam heating, electric lighting, tile and marble work, hollow metal sash and skylights, fire doors, metal bulks, fire escapes, metal lath, elevators, roof ventilators, waterproofing. Plans in progress.

School, Benton, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, Benton School District, Benton, Pa. Brick, 1 story and basement, 42x84 feet, slate roof, pine floors (heating and lighting not decided). Plans in progress.

Residence, Hummelstown, Pa., \$3,500. Architect, George H. Grove, Harrisburg, Pa.

Owner, Charles I. Holler, Hummelstown, Pa. Frame, 2 stories, 21x41 feet, slate roof, steam heating, electric lighting, pine floors. Owner taking sub-bids.

Residence, Columbia, Pa. Architect, Granville Paules, Columbia, Pa. Owners, Broome Bros., Columbia, Pa. Frame and stucco, 2 stories, shingle roof, heating undecided, pine floors. Owners ready for bids.

Garage, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Charles F. & B. Grant Stauffer, Lancaster, Pa. Brick, 2 stories, 76x244 feet, slag roof, pine floors, electric lighting. Owners taking bids, due as soon as possible. Geo. Bachman, Samuel Bally, L. B. Wright, D. S. Warfel, Lancaster, Pa., and Harry Gerhart, Ephrata, Pa., are figuring.

Residence, Mount Joy, Pa. Architect, Malvern Evans, Lancaster, Pa. Owner, H. G. Longenecker, Mount Joy, Pa. Brick, 2 stories, 38x34 feet, slate roof, heating not decided, electric lighting, hardwood floors. Plans in progress.

Residence (alt.), East Orange, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, J. Fred Fisher, North Duke street, Lancaster, Pa. Brick, 3 stories, slag roof, hot water heating, electric lighting. Plans completed. Owner will build.

Factory, Columbia, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, O. K. Clutch and Machine Co., Columbia, Pa. Brick, 1 story, 60x130 feet, slag roof, steam heating, electric lighting, cement floors. Owners are sub-letting.

Grain Elevator (add.), Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owner, John W. Eshelman, Lancaster, Pa. Brick (slow burning), 2 stories, 64x120 feet, slag roof, concrete floors, electric lighting, fire doors, metal lath, ele-

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vators. Plans completed. Owner will take bids in a week.

Store and Apartment, Bethlehem, Pa. Architect, J. R. Wilt, 47 South Fourth avenue, Bethlehem, Pa. Owner, Samuel H. Seigel, 335 New street, South Bethlehem, Pa. Brick, 3 stories, 35x48 feet, Carey's roof, hot water heating, combination lighting, plumbing, yellow pine floors, metal walls and ceilings. Owner will take sub-bids in about two weeks.

Residences (3), Bethlehem, Pa. Architect, J. R. Wilt, Bethlehem, Pa. Owner, Samuel H. Seigel, 335 New street, South Bethlehem, Pa. Brick, 2 stories, 39x28 feet, Carey's roof, combination lighting, pine floors, plumbing. Owner will take sub-bids in about one week.

Carpenter and Pattern Shop, Midvale, Pa. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Brick and steel, 2 stories, 46x130 feet, rubberoid roof, concrete floor (steam heating and lighting reserved), rolled steel sash, iron stairs, ornamental iron work, metal lath, safety treads, sprinkler system. Owners taking revised bids, due July 11th. F. W. Mark Const. Co., Finance Building; W. W. Lindsay & Co., Harrison Building; Barclay White & Co., 1713 Sansom street; Wark-Yardley Co., 1737 Filbert street; Doyle & Co., 1519 Sansom street, and Irwin & Leighton, 126 North Twelfth street, Philadelphia, and Levering & Garrigues, 552 West Twenty-third street, New York City, are figuring.

Dye House, Pottstown, Pa. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Cudebrod Bros. Silk Co., Stowe, Pa. Brick and frame, 2 stories, 55x100 feet, slag roof, plank floors, fire doors, roof ventilators (heating and lighting reserved). Architect taking bids, due July 14th. Metzger & Fisher, Otis Building; F. A. Havens & Co., 845 North Nineteenth street; J. Richard Jackson, Perry Building; H. E. Batton, 1713 Sansom street, Philadelphia; Wm. H. Wiand, Wm. L. Hamp-

ton, Hutt & Knode, and F. W. Kaiser & Reigner, all of Pottstown, Pa., are figuring.

Residence, Bethlehem, Pa. Architect, J. R. Wilt, 47 South Fourth avenue, Bethlehem, Pa. Owner, Herbert Christman, Bethlehem, Pa. Brick, 2 stories, 24x31 feet, slate roof, hot air heating, electric lighting, plumbing, hardwood and pine floors. Owner will be ready for bids about July 15th.

Water and Sewage Problems

We design and install systems for water supply, sewage disposal, lighting, refrigeration, irrigation—every type of private utilities

HARRISON, MERTZ & EMLLEN, Inc.

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REINFORCING BARS

Quick Shipments from Warehouse or Mill

WITHEROW STEEL CO.

General Offices and Rolling Mills, Pittsburgh

Philadelphia Office, 1435 Commercial Trust Building

Shell Houses (3) and Magazine Buildings (4), Fort Mifflin, Pa., \$500,000. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Hollow tile, steel and stucco, 1 story, 98x50 feet, asbestos shingle roof, pine floors, rolled steel sash, hollow metal doors, waterproofing and dampproofing. Contract awarded to J. Henry Miller, Eutaw and Franklin streets, Baltimore, Md.

PENNSYLVANIA

Contracts Awarded

Machine Shop, Hazleton, Pa. Engineer, John G. Brown, Witherspoon Building, Philadelphia. Owners, Jeansville Iron Works, care of Worthington Pump and Machinery Co., 115 Broadway, New York City. A. B. Jennings, manager of works at Hazleton, Pa. William Schwanhauser, chief engineer, 115 Broadway, New York City. Brick (slow burning), 1 story, 51x336 feet, slag roof, concrete floors, steam heating, electric lighting (mill work awarded). Contract awarded to John G. Brown, Witherspoon Building, Philadelphia. Ready for sub-bids in ten days.

Garage, Lancaster, Pa. Architect, H. M. Barthoomew, 39 East Grant street, Lancaster, Pa. Owner, J. Fred Fisher, Lancaster, Pa. Brick, 2 stories, 42x46 feet, slag roof, hot water heating, electric lighting, 1 elevator, gasoline storage. Contract awarded to W. H. Flick, Lancaster, Pa.

Factory (add.), York, Pa. Architect, John B. Hamme, York, Pa. Owners, Eisenlohr Bros., York, Pa. Hollow tile, 1 story, 24x116 feet, slag roof (steam heating reserved), electric lighting, concrete floors, hollow tile. Contract awarded to George W. Gilbert, York, Pa.

School (alt.), Shamokin, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, St. Edward's R. C. Church, care of Rt. Rev. M. M. Hassett, Shamokin,

Pa. Consists of interior alterations, steel stairs, composition floors (heating, plumbing and electric work reserved). Contract awarded to the Davis Lumber Co., Shamokin, Pa.

Residence, Front and Muench streets, Harrisburg, Pa., \$50,000. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owner, D. E. Tracy, 2007 North Third street, Harrisburg, Pa. Indiana limestone, 2½ stories, 52x42 feet, tile roof, steam heating, electric lighting, hardwood floors, tile and marble work. Contract awarded to Central Const. Co., Harrisburg, Pa.

Publishing House, Third and Reilly streets, Harrisburg, Pa. Architects, F. G. Fahnestock & John Raidabaugh, Patriot Building, Harrisburg, Pa. Owners, Evangelical Publishing Co., Harrisburg, Pa. Reinforced concrete, 2 stories, 210x162 feet, slag roof, concrete floors, city steam heating, electric lighting, tile and marble work, hollow metal sash, fire doors, hollow tile, elevators, sprinklers. Contract awarded to Joseph W. Pomraining, Harrisburg, Pa.

School, Landisville, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, School Board of Landisville, Landisville, Pa. Brick, 2 stories, slag roof, steam heating, electric lighting, yellow pine and maple floors. Contract awarded to Jacob T. Snyder, Florin, Pa.

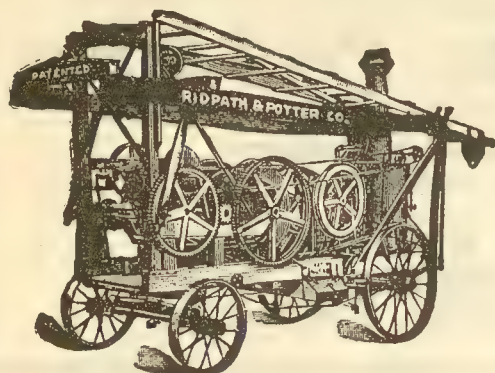
Miscellaneous Construction News

Dormitory Building and Dining Hall, Newark, Del. Architects, Day & Klauder, 823 Chestnut street, Philadelphia. Owners, Delaware College, Newark, Del. Brick and marble, fireproof construction, 3 and 4 stories, 50x50 feet and 30x50 feet, slate roof, steam heating, electric lighting, tile and marble work, metal lath, dumbwaiter. Architects taking bids on brick, reinforced concrete work and mill work from Jacob Myers & Sons Co., Witherspoon Building; R. C. Ballinger & Co., 218 North Thirteenth street; James H. Wells, Otis Building, and F. M. Harris, 1520 Parrish street, all of Philadelphia, due on July 19th. Architects also taking sub-bids, due on July 19th.

Buildings (4), Charlestown, W. Va. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete. Machine shop, 1 story, 111x402 feet; foundry and forge shop, 135x562 feet; heat treatment plant, 92x153 feet; lavatory and locker rooms, 75x112 feet; composition roof, steam heating, electric lighting, rolled steel sash, fire and hollow metal doors, concrete floors, hollow tile, iron stairs, metal weather strips, waterproofing, wire work, ornamental iron work. Owners taking bids, due July 16th. F. W. Mark Const. Co., Finance Building, Philadelphia, is figuring.

Industrial Plant, Utica, N. Y. Engineer, John G. Brown, Witherspoon Building, Philadelphia. Owners, Savage Arms Corp., care of

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.



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LET US SUBMIT PRICES

RIDPATH & POTTER CO

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INCLOSED PORCHES

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Specially designed to conform with the architecture of the residence. Special quotations on heating and lighting Inclosed Porches.

Diamond goo Bell or Postal to

SAMUEL B. MAC DOWELL & SON

1927 W. Montgomery Avenue, Philadelphia, Pa.

F. R. Phillips, assistant manager, Utica, N. Y. Brick (slow burning). Machine shop, 1 story, 34x270 feet; machine shop, 4 stories, 50x220 feet; machine shop, 4 stories, 50x280 feet; office building, 2 stories, 50x75 feet; dry kiln building, 1 story, 40x80 feet; slag roofs (saw tooth), maple floors, rolled steel sash,

iron stairs, plumbing, sprinklers, steam heating, electric lighting. (Power plant and electric equipment designed by Charles T. Myers, Savage Arms Corp., Utica, N. Y.) Contract awarded to John G. Brown, Witherspoon Building. Ready for sub-bids.

NEW JERSEY Construction News

Y. M. C. A. Building, Rahway, N. J. Architect, John F. Jackson, 1328 Broadway, New York City. Owners, Y. M. C. A., Rahway, N. J. Brick and reinforced concrete, 3 stories, 93x131 feet, slate and tile roof, electric lighting (heating reserved), tile and marble work, rolled steel sash, hollow metal skylights, fire doors, fire escapes, cement, maple and pine floors, metal lath, waterproofing, dampproofing, ornamental iron work. Owners taking bids, due July 15th. Hughes-Foulkrod Co., Commonwealth Building, is figuring.

Library, Haddonfield, N. J. Architect, Wm. C. Prichett, 416 Walnut street, Philadelphia. Owners, Haddonfield Library and Historical Society, care of Wm. G. Moore, chairman Building Committee, Drexel Building, Philadelphia. Brick and plaster, 1 story and basement, 63x20 feet, wing 25x24 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, hollow metal skylights, pine and oak floors, metal lath, waterproofing. Architect taking bids, due July 12th. Smith-Hardican Co., 1606 Cherry street; F. L. Hoover & Sons, 1023 Cherry street; R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Baton, Twelfth and Sansom streets; J. S. Rogers Co., Moorestown, N. J., and Edward Geschke, Collingswood, N. J., are figuring.

School, Titusville, Mercer County, N. J. Architect not selected. Owners, Titusville

School Board, Titusville, N. J. Work contemplated.

State Hospital (alt. and add.), Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, Board of Managers, New Jersey State Hospital, Trenton, N. J. Consists of concrete floors, hollow metal skylights and sash, fire doors or kalamein doors, fire escapes, dumb waiters, metal window guards. Architect taking bids, due July 13th. Joseph B. Smith & Son, S. W. Mather & Son, Burton & Burton, James H. Morris, all of Trenton, N. J.; Aetmer Iron Works, 700 Monroe street, Hoboken, N. J.; Enstee Bros., Newark, N. J., and Noe-Wadlow Co., Second and Oxford streets, Philadelphia, are figuring.

State Normal School (alt.), Trenton, N. J., \$8,000. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, State Board of Education, Trenton, N. J. Consists of fire escapes and fire doors. Plans in progress.

Store and Apartments, Trenton, N. J., \$7,000. Architect, J. P. Pette, 131 Jackson st., Trenton, N. J. Owner, Andrew Metchaowski, Trenton, N. J. Brick, 2 stories, 65x25 feet, slag roof, hot water heating, electric lighting, yellow pine floors. Architect taking bids, due July 13th. Ed. La Rue, W. A. Chapman, Lansy & Brown, and Elmer Stout, all of Trenton, N. J., are figuring.

Bulb Factory, Harrison, N. J. Architect, R. H. Canfield, Corning, N. Y. Owners, General Electric Co., Harrison, N. J. Reinforced concrete and brick, 1 and 2 stories, 255x135 feet, Bonanza cement tile roof, rolled steel sash (plumbing and heating reserved). Owners taking bids, due July 12th. F. W. Mark Const. Co., Finance Building, Philadelphia, is figuring.

New Jersey Contracts Awarded

Residence (add.) and Garage, Vineland, N. J., \$3,500. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Evan E. Kimble, Vineland, N. J. Brick, hollow tile, half timber, Porte-cochere addition to residence; garage, 1½ stories, 29x24 feet, tile roof, cement and pine floors, hot water heating, electric lighting. Contract awarded to Joseph B. Rowen, Moorestown, N. J.

Residence, Woodstown, N. J. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, Wm. A. Jacquette, southeast corner Fifteenth and Locust streets. Frame, 1 and 2 stories, 26x30 feet and 32x16 feet, shingle roof, hot air heating, electric lighting, pine floors. Contract awarded to W. A. Lacey, Richwood, N. J.

Home (alt. and add.), 915 Haddon avenue, Camden, N. J., \$2,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Camden Home for Friendless Children, 915 Haddon avenue, Camden, N. J. Brick, 1 story, 16x50 feet, slag roof, hot air heating, combination lighting, pine floors. Contract awarded to Barklow & Fulton, Camden, N. J.

Garage and Warehouse, Brunswick avenue, Trenton, N. J. Architect, J. O. Hunt, 114 N. Montgomery street, Trenton, N. J. Owners, Board of Freeholders, care of George Royle, Remington avenue, Trenton, N. J. Brick, 1 and 2 stories, slag roof, steam heating, electric lighting, tile work, concrete floors, gasoline storage system. Contract awarded to Charles Y. Barlow, 149 Elmhurst street, Trenton, N. J.

AN UNBREAKABLE WINDOW GLASS.

A new glass, transparent, tough and strong, which a 22-caliber bullet cannot penetrate and a brick cannot shatter, is stated by "Popular Science Monthly" to have recently been invented. The secret of its strength is said to be a sheet of white, transparent celluloid, twenty one-thousandths of an inch thick, placed between two pieces of glass. The glass and celluloid are welded together under high temperature and tremendous pressure, the result being a solid sheet possessing the transparency of the best plate glass and the strength of a sheet of metal.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

MARYLAND Construction News

Store (alts.), 223 West Lexington street, Baltimore, Md. Architects, Smith & May, 1133 Calvert Building, Baltimore. Consists of interior alterations to upper floors. Plans in progress.

Residence, Towson, Md. Architect, Thomas B. Owings, 347 North Charles street, Baltimore. Owner, Julian W. Ridgely, care of Mutual Life Insurance Co., Union Trust Building, Baltimore. Stone, 2½ stories, 104x50 feet, flat roof, hot water heating, electric lighting. Plans in progress.

Office Building, Sparrows Point, Md. Architects, Wyatt & Nolting, Keyser Building, Baltimore. Owners, Bethlehem Steel Co., South Bethlehem, Pa. Brick, concrete and steel, 4 stories, 60x200 feet. Plans about completed.

Residence, Winderbourne, Md., \$6,000. Architect, J. Franklin Nelker, 330 North Charles street, Baltimore. Owner, A. G. Pinkerton, Winderbourne, Md. Frame, 2½ stories, slate roof, hot water heating, electric lighting, hardwood floors. Plans completed. Owner will superintend construction and is taking sub-bids.

Factory, Towson, Md. Engineer, Herman F. Doeleman, American Building, Baltimore.

Owners, Black & Decker Manufacturing Co., 105 South Calvert street, Baltimore. Frame, 1 story, 60x200 feet, asbestos shingle roof and side walls, concrete floors, tile work, sheet metal. Engineer taking revised bids, due July 14th at 10 A. M. The following are figuring: Cowan Building Co., 106 West Madison street; Consolidated Eng. Co., Calvert Building; Charles L. Stockhausen Co., Gay and Water streets; J. L. Robinson Const. Co., 218 East Lexington street; Fred Decker & Son, 1209 East Biddle street; Cogswell-Koether Co., 406 Park avenue, all of Baltimore, Md.

Garage, 3020-3022 York road, Baltimore, Md. Architects, Sparklin & Childs, Law Building, Baltimore. Owner, W. A. Harris, on premises. Brick, 1 story, 8x185 feet, slag roof, steam heating, electric lighting, skylights, concrete work. Consolidated Eng. Co., Calvert Building, Baltimore, taking sub-bids.

Morgue Building, Aliceanna, near President street, Baltimore. Architect, private plans. Owners, City of Baltimore, City Hall, Baltimore, Md. Brick and concrete, 1 story, 41x65 feet, slag roof, steam heating, electric lighting. Low bidders, Charles Herbold & Sons, 2768 West North avenue, Baltimore, \$25,642.

MARYLAND Contracts Awarded

Bank Sparrows Point, Md. Architect, A. C. Leach, 323 North Charles street, Baltimore. Owners, Bank of Sparrows Point, Sparrows Point, Md. Hollow tile and terra cotta, 1 story, 35x41 feet, slag roof, sheet metal (plumbing, heating and electric wiring reserved), lighting fixtures, vault lining and doors. Contract awarded to Cowan Building Co., 106 West Madison avenue, Baltimore, Md.

Cork Grinder House, Foster, Fait, Twelfth and Thirteenth streets, Baltimore. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore. Owners, Crown Cork and Seal Co., Guilford avenue, Baltimore. Brick and reinforced concrete, 4 stories, 123x29 feet, slag roof, iron work, painting, cement work, fire doors, metal sash and ventilators, steel sash and doors (heating and electric wiring reserved). Contract awarded to West Const. Co., American Building, Baltimore.

Ship Building Plant, Baltimore, Md. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Baltimore Ship and Dry Dock Co., Baltimore, Md. Steel and concrete, shipbuilding berths and drydocks. Iron work and steel work awarded to Belmont Iron Works, Philadelphia, Pa. Construction of foundations, shipways and drydocks awarded to Raymond Concrete Pile Co., Baltimore, Md.

Church and Parsonage, Remington avenue and Thirtieth street, Baltimore, \$16,000. Architect, private plans. Owners, Bethany United Evangelical Church, care of Rev. Harry Minsker, 5 West Fort avenue, Baltimore. Brick and stone, 1 story and 2 stories, slate roofs, electric lighting, steam heating, plumbing. Contract awarded to C. C. Watts, 407

East Twenty-fifth street, Baltimore, Md.

School Buildings, Liberty Heights avenue and Western Maryland Railroad, Baltimore, \$42,000. Architects, Smith & May, Calvert Building, Baltimore. Owners, Park School, care of Dr. Hans Froelicher, 3440 Auchentoroly Terrace, Baltimore. Frame and stucco, concrete foundations, 1 and 2 stories, asphalt shingle roof, ornamental iron work, skylights, reinforced concrete, metal lath, composition floors, sheet metal (plumbing, heating and electric work reserved). Contract awarded to W. E. Burnham, Law Building, Baltimore, Md.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—“Municipal Engineering.”

Alterations and Additions

Dwelling, 2026 South Eighth street, \$400. Andelo Codamo (O and C), on premises. Change front of building from store to dwelling.

Dwelling, Cumberland and Philip streets, \$600. H. Salus (O), 308 Morris Building. J. Rose & Son (C), 1615 Sansom street. Brick up windows.

Factory, 4623 Paul street, Frankford, \$1,350. S. W. Evans & Son (O), on premises. Keuper Const. Co. (C), 905 Walnut street. Replacing brick piers.

Dwelling, 1124 Ellsworth street, \$1,000. John De Carlo (O), on premises. Cerasoli Scuri (C), 1231 Christian street. Brick, 2 stories, 12x14 feet, tin roof.

Factory, 441 Green street, \$1,800. W. K. Wampole & Co., Inc. (O), 428-30 Fairmount avenue. Stewart Bros. (C), 2528-30 North Oakney street. Brick hatch.

Factory, 1326 Washington avenue, \$1,000. Penn Chemical Plant (O), on premises. Nickson Duggan Co. (C), 1004 Bailey Building. Boiler setting.

Church, Thirty-eighth and Ludlow streets, \$800. Church of the Saviour (O), on premises. R. J. Whiteside Sons (C), 2115 Wallace street. Repair to stone balustrade.

Dwelling, 3062-73 Kensington avenue, \$2,600. W. A. Hormor (O), Bryn Mawr, Pa. E. J. Shuttleworth (C), 3054 Kensington avenue. Alterations.

Dwelling, 1927 Tioga street, \$900. E. Reese (O and C), on premises. Change front of store into dwelling.

Power Plant, American and Somerset sts., \$1,050. E. F. Houghton & Co., on premises. Bushnell Bros. (C), 2146 East Norris street. Brick, 1 story, 10x33 feet.

Fire Boat connection, bulkhead end of Dock, Girard Point, between Pier “C” and Pier No. 3. Pennsylvania Railroad Co. (O and C), Broad Street Station. Frame, 1 story, 8x10 feet.

Dwelling, 6742 North Thirteenth street, \$600. A. Fink (O), on premises. Harry R. Rust (C), 19 South Eighth street. Sleeping porch, frame, second story rear.

Dwelling, 1823 Spring Garden street, \$390. Dr. M. R. Taylor (O), 1706 Race street. John Welsh (C), 138 North Seventh street. Brick, 1 story, 8x8 feet, slag roof, additions.

Stable and Auto Repair Shop, 4080-82 Hav-erford avenue, \$2,000. W. E. Berry (O and C), 401 North Forty-first street. Brick, 1 story, 33x50 feet addition.

Dwelling, 164 West Coulter street, \$1,000. John Hopkin (O), on premises. Frederick Sabin & Co., Inc. (C), 237-41 Bread street. Hot water heating system.

Offices, 316 Walnut street (place), \$900. Francis Almshouse (O), on premises. R. C. Ballinger Co. (C), 218 North Thirteenth street. Interior alterations.

Store and Dwelling, Eighteenth and Chestnut streets, \$975. London Flower Shop, Inc. (O), Eighteenth and Chestnut streets. E. E. Hollenback, Inc. (C), 1804 Brandywine st. Alterations.

Store, Wharton and Guenther streets, \$325. J. McGlone (O), on premises. H. F. Dillon (C), 1223 South Twentieth street. New bulks.

Store and Storage, Twenty-third and Brown streets, \$2,000. Lewis Merz (O and C), 4942 Parrish street. Lower floor and new bulk and alterations.

Steel Stack, Eighth and Chestnut streets, \$1,800. J. A. Patterson Co. (O), 130 South

Our specialty is Portland Cement that will stick and pass the City Department. **DAVID FRANCE CO.,**
Tasker Street Wharf, Delaware River, Philadelphia.

Fifteenth street. Philadelphia Boiler Works (C), 1737 Filbert street. Steel stock, 75 feet. Warehouse, 143 Dock street, \$1,800. C. H. Peacock (O), 131 Dock street. Henry C. Dahl (C), 231 South Eighth street. Alterations to lower floor.

Dwelling, 526 West Horter street, \$500. L. Chase (O), on premises. E. A. Hiffner (C), 6361 Jefferson street. New porch, 6x10 feet, and bay window.

Stores, 1638-40 Market street, \$500. Frank Hardart (O), 202 South Tenth street. Stuckert & Co. (C), 1420 Chestnut street. New partition, plaster on metal lath.

Stone Wall, Glenwood avenue and Twentieth to Twenty-first street, \$500. Lite & Arbelo Co. (O), on premises. Pennsylvania R. Co. (C), Broad Street Station. Stone wall, 35 feet long, 20 feet high.

Sheridan to provide quarters for the working force engaged on the job. At 5 o'clock in the evening a train of fifty empty cars was on track in the yards of the lumber company. The entire train was loaded with the 1,400,000 feet on April 30 out of the stock of Northern, Southern and Western lumber carried on hand. The contract called for all dressed lumber. The most remarkable part of the operation therefore, was that some 400,000 feet of the shipment was run through the planing mills of the lumber company, as well as being loaded on the cars in the same day.

The Chicago and Northwestern Railroad delivered the trainload of lumber at Fort Sheridan on Tuesday morning, May 1. The Sumner Sollitt Company had its construction force on the ground equipped with gasoline saws and all other devices for quick work. Ohio National Guard Engineers staked out the Company streets and buildings. The job was finished on May 10, in just ten working days, using only one shift of men per day. The largest number of men employed on the job at one time was 785. Here is what they built complete, ready for occupancy:

42 barracks, 20x126 feet each.

21 mess buildings, 20x110 feet each, equipped with tables and benches built in regular logging camp style.

21 lavatory buildings, 16x63 feet, equipped with toilets, shower baths, etc.

1 postal exchange building, 20x30 feet.

1 telephone exchange building, 20x33 feet.

This is the story of one of the camps where officers will be trained for the new army and is duplicated in many other camps throughout the country, as there are fifteen reserve officer training camps in the country, requiring quarters for 35,000 prospective officers. The regular permanent barracks do not begin to provide room for all these men. This story of the Fort Sheridan camp is that of all other camps where cantonments are being built, and will be duplicated on a larger scale to provide quarters for the new army of 500,000 men called out September 1.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

Are you aware, Mr. Advertiser, that this paper circulates in 5,000 offices, reaches every architect of any prominence in the East and the Secretary of every architectural club and chapter in the country?

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Church, Seventeenth and Fitzwater streets, \$8,000. Trustees of Presbytery of Philadelphia, agent (O), Witherspoon Building. Thos. C. Trafford (C), 1613 Sansom street. Brick, 2 stories, 33x10 feet. New steam heating.

Church, Twenty-eighth and Lehigh avenue, \$20,000. Northwest Memorial Baptist Church (O), on premises. E. E. Hollenbach, Inc., (C), 1804 Brandywine street. Stone, 1 story, 72x80 feet, slag roof, steam heating.

Store, Seventh and Filbert streets, \$605,000. Lit Bros. (O), on premises. Keystone State Const. Co., (C), Pennsylvania Building. Reinforced concrete, 7 stories, 87x167 feet, slag roof.

Factory, State road and Levick street, \$20,000. Plexus Tire and Rubber Co. (O), 1011 Chestnut street. M. W. Easby, Inc. (C), 1420 Chestnut street. Brick, 1 and 2 stories, 53x128 feet, slag roof, steam heating.

Shop, 3313 Gray's Ferry road, \$1,000. Lutz Co. (O and C), on premises. Iron on iron, 1 story, 30x60 feet.

Garage, Wayne avenue and Harris street, \$1,200. Mary B. Hamilton (O), 7444 Devon street. Harry White (C), 8131 Germantown avenue. Stone, 1 story, 18x21 feet, slate roof.

City Farms, Southampton road, \$928,000. City of Philadelphia (O), City Hall. F. W. Mark Const. Co. (C), 1701 Finance Building. Brick, 1 and 2 stories, 223x43 feet.

Dwelling, Forrest avenue and Upsal street, \$3,000. S. N. Nester (O and C), 804 Somerset street. Brick, 2 stories, 16x42 feet, slag roof, hot water heating.

Storage, 3120-30 Market street, \$200,000. Twentieth Century Storage Warehouse Co. (O), on premises. George & Borst (C), 277 South Eleventh street. Reinforced concrete, 7 stories, 49x220 feet, slag roof.

Garage, Lawrence and Queen streets, \$2,300. D. Mullen (O), 167 Queen street. H. P. Schneider (C), 3713 York Road. Brick, 1 story, 55x22 feet, slag roof.

Coal Yard, Thirtieth street, south of Locust street, \$20,000. George B. Newton Co. (O), Franklin Bank Building. Armstrong & Latta Corp. (C), 532 Land Title Building. Wooden trestle, constructed of pine.

Dwelling, 558-60 East Monaster avenue, \$6,000. John J. Hurley (O and C), 4416 Cresson street. Brick, 2 stories, 15x54 feet, tin roof.

ARMY CAMP CONSTRUCTION IN THE WEST.

FORT SHERIDAN, Ill., July 2.—This is the story of the use of lumber in an army cantonment, and of the manner in which the American Logging Camp has been copied for regular army uses, in the building of quarters for the Reserve Officers' Training Camps. When the letters R. O. T. C. are seen, this is the interpretation. There are two camps at Fort Sheridan, each of 2,500 men, roughly, one camp for Illinois and one for Wisconsin and Michigan combined. Each camp is organized in fifteen companies of about 160 men each. Wisconsin and Michigan are in permanent barracks except for four companies which with the Illinois regiment are quartered in cantonments on the south side of the reservation. There are quarters for two emergency companies with the four Wisconsin-Michigan companies, making a total of twenty-one companies quartered in the newly erected wooden cantonments.

The quarters for each company are four buildings, placed end to end with a twenty-foot space between each. On the south is the mess hall, with a kitchen and two tables the length of the building, a la lumber camp, bench seats on each side of each table. The next two buildings are the quarters, with cots in each, for eighty men. North of these two is a bath house.

The speed of construction of the camp was notable, and a most striking evidence of the ability of the typical American business man to meet emergencies. The contract for the construction of the buildings was awarded to the Sumner Sollitt Company, Chicago, on Saturday evening, April 28. About noon on Sunday, April 29, the Edward Hines Lumber Company, of Chicago, received the order for the material, amounting to a total of some 1,400,000 feet. During the afternoon five auto loads of lumber were dispatched to Fort

Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

PHILADELPHIA AS A BUILDING CENTER

A Classified and Tabulated Statistical Review of Structural Activities During 1917

	January.	February.	March.	April.	May.	June.	Total Operations.	Estimated Cost.
One-story Dwellings	0	0	0	0	2	2	4	\$ 5,100
Two-story Dwellings	140	342	454	580	306	108	1,930	5,079,010
Three-story Dwellings	26	23	50	59	7	54	219	1,502,740
Office Buildings	3	0	8	7	3	2	23	370,930
Warehouses	5	2	9	3	5	2	26	494,900
Factories	9	6	5	13	10	9	52	3,416,225
Engine and Boiler Houses	1	0	1	1	0	1	4	36,100
Foundries and Shops	5	7	12	8	4	3	39	90,430
Stores	2	6	2	1	1	2	14	145,550
Churches	1	0	1	1	2	3	8	211,450
Laundry	0	0	0	0	1	0	1	22,000
Stables	0	0	1	1	0	0	2	5,750
Schools	0	0	0	0	0	1	1	130,000
Frame Dwellings	4	1	3	11	2	3	24	66,515
Tenement Houses	1	1	0	1	0	0	3	2,147,000
Parish Buildings	1	0	0	0	0	0	1	23,000
Banks	0	0	1	0	1	0	2	182,000
Hospitals	0	0	0	0	1	1	2	80,000
Club Houses	1	0	0	1	1	1	4	80,090
Garages	42	79	80	85	95	89	470	664,470
Power Houses	0	0	1	1	2	0	4	218,000
Halls	0	1	0	0	0	0	1	5,390
Municipal Buildings	0	0	0	6	0	0	6	827,000
Miscellaneous Buildings	9	9	11	17	16	12	74	104,575
Total New Buildings	250	477	639	796	459	293	2,914	\$15,908,225
Additions	67	77	124	121	138	100	627	2,751,030
Alterations and Repairs	174	187	253	260	215	242	1,331	1,445,870
Grand Totals							4,872	\$20,105,125
Heaters							65	35,870
Fire Escapes							34	23,305
Signs							34	9,105
Miscellaneous Unclassified Work							639	357,815
Total Work of all kind							5,644	\$20,531,220

TWO-STORY DWELLINGS—Including two-story Stores and Dwellings

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Totals
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	19	0	3	0	0	0	0	2	0	61	1	0	0	0	0	140	
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	38	0	61	0	0	3	9	0	141	342	
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6	0	2	0	0	0	0	0	0	0	46	1	0	0	0	20	104	49	0	186	8	11	11	9	0	0	454
April	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	9	0	0	0	0	0	0	0	0	33	0	41	6	0	0	0	0	148	6	302	0	0	2	18	0	0	580
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	7	1	0	0	50	0	0	0	0	0	0	0	0	7	0	0	0	21	49	30	100	32	1	0	0	0	0	306
June	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	3	1	0	0	27	0	0	0	0	0	0	0	1	2	0	0	3	0	8	0	5	16	0	0	10	0	26	108
Totals	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	26	146	19	0	2	77	0	0	0	0	0	33	65	48	18	0	0	23	125	294	36	715	57	12	16	46	0	167	1930

THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings

Wards	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Totals
Jan.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	26	
Feb.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	1	0	0	23	
Mar.	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	1	2	0	3	0	0	0	0	0	50	
April	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	2	8	0	0	1	0	0	0	12	0	0	0	28	0	0	59
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14	0	0	0	0	1	0	0	0	0	0	0	27	0	0	0	0	0	0	1	0	0	0	10	0	0	54	
Totals	2	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	5	55	24	0	0	1	1	0	0	0	0	0	0	55	8	0	0	1	1	2	0	19	0	0	0	39	0	0	219

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Due from Banks	-	-	-	9,858,635.55
Cash and Reserve	-	-	-	7,471,902.29
Exchanges for Clearing House	-	-	-	2,780,622.72

\$58,515,464.62

LIABILITIES

Capital	-	-	-	\$1,000,000.00
Surplus	-	-	-	3,250,000.00
Undivided Profits	-	-	-	638,399.09
Letters of Credit	-	-	-	253,523.09
Deposits	-	-	-	53,373,542.44

\$58,515,464.62

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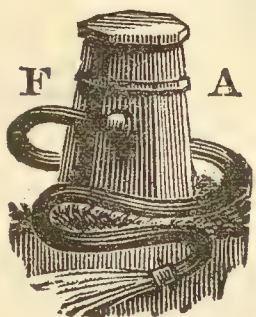
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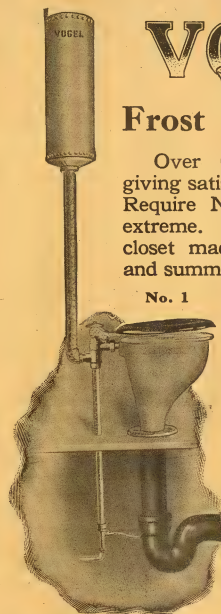
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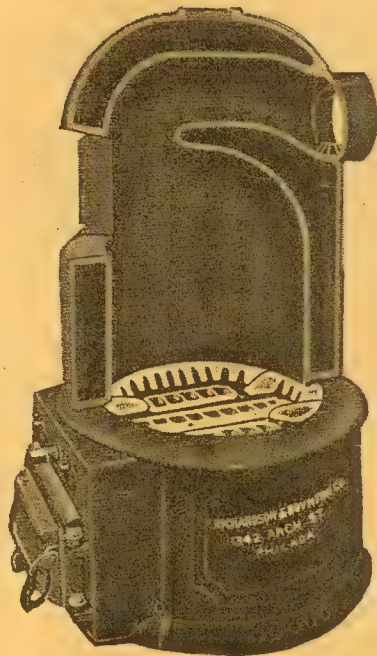
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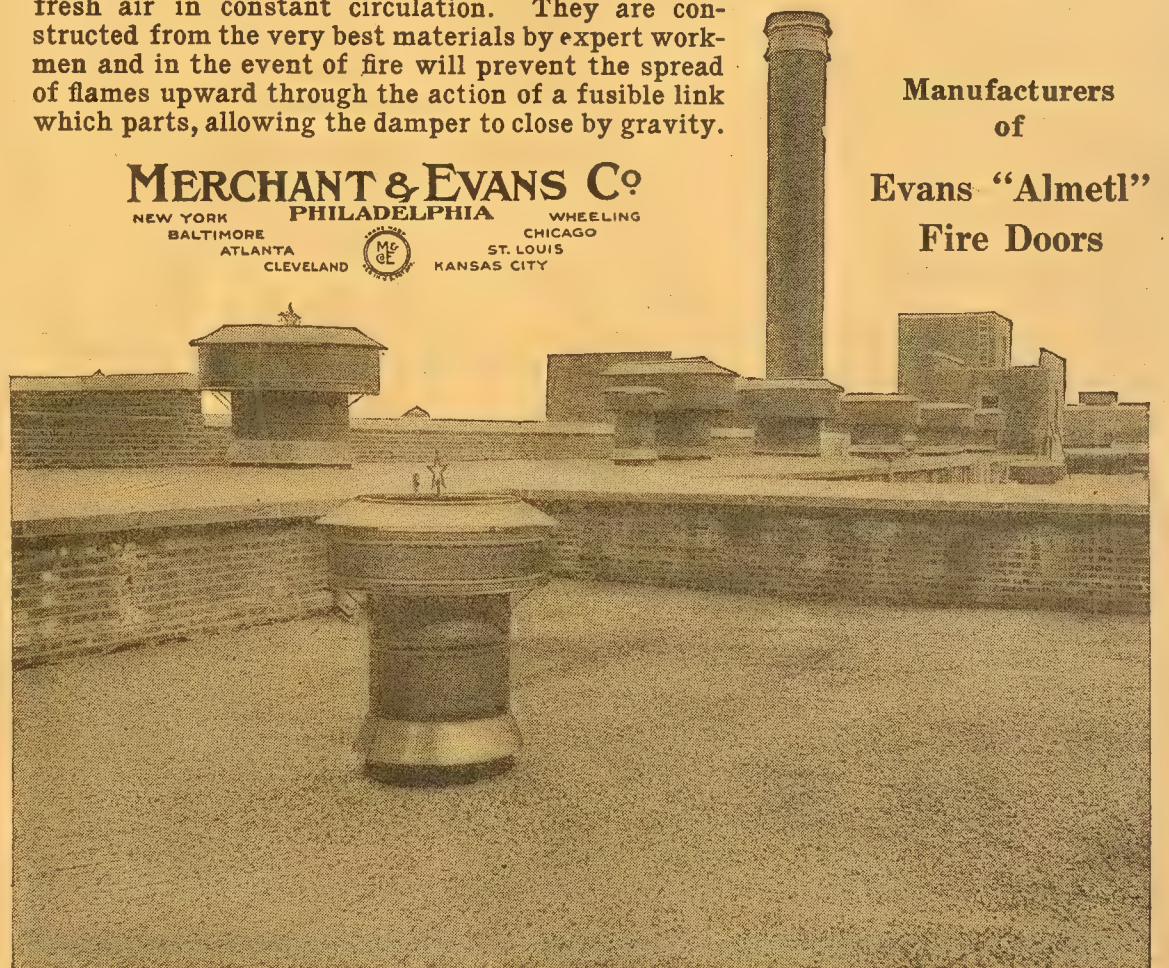
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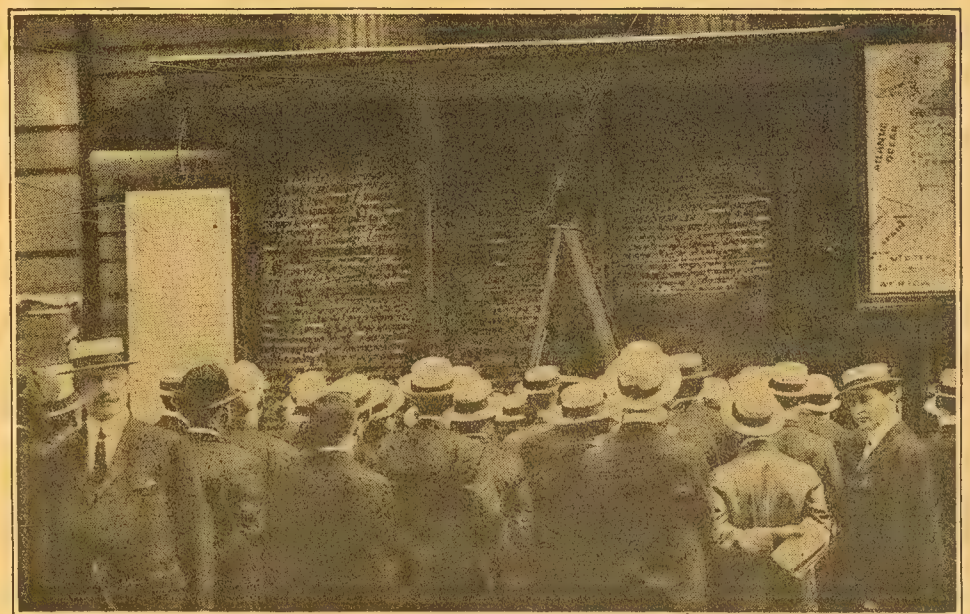


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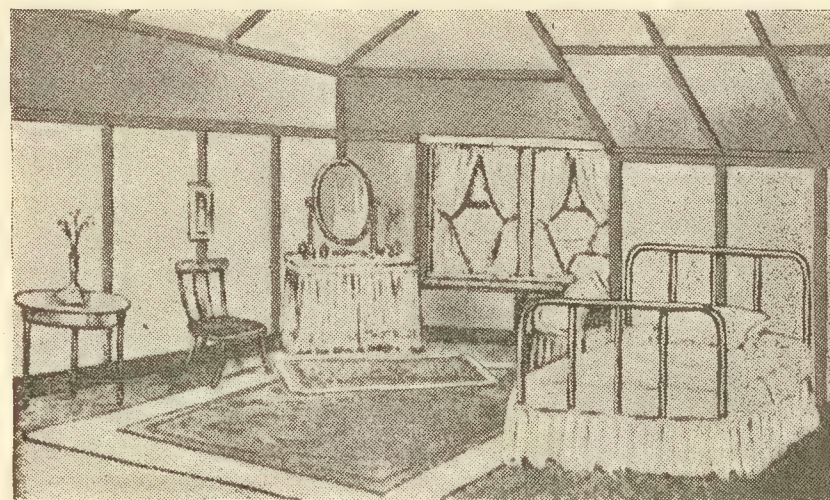
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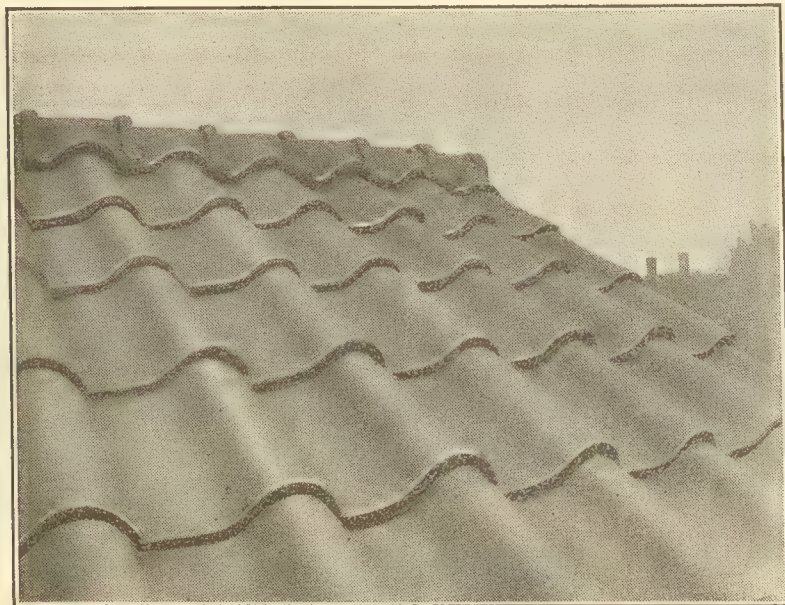


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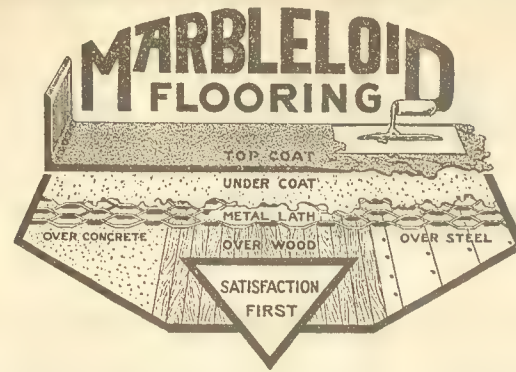
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades
VOLUME XXXII
Number 29
PHILADELPHIA
July 18, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide
PUBLISHED WEEKLY

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As The Editor Sees It



THERE is practical unanimity among authorities as to the necessity which exists for avoiding any curtailment of building construction at this time. While materials are undoubtedly higher in price, labor scarcer than it has been for years and deliveries, in certain lines, less assured than under normal conditions there is no immediate prospect of any betterment of these conditions and nothing whatever to be gained by a postponement of plans. By way of offsetting the dark side of the existing situation reports from all over the country show a keener renting and selling demand than has been the case since the Civil War, with better figures than have at any time in the history of real estate, ruled the market. The *National Builder* remarks of the situation now presented:

"There should be no curtailment in building construction. Let both public and private useful construction proceed. Production and handling of building materials and public and private construction work are fundamental industries of the country. Any tendency to suspend or postpone building projects is inconsistent with maintaining our prosperity. The country is prosperous. Building investors should not hesitate to go ahead with their plans. Railroads should spare no effort to supply the building industry with the cars needed to transport materials. Government, State, county, and municipal authorities should encourage

the continuance of all kinds of building.

"The lumber, brick, cement, lime, sand, gravel, stone, and other building material industries are basic. Neither Government regulations nor railroad restrictions should be imposed unnecessarily to interfere with them.

"Building will not be cheaper, for a long time at least. It is generally conceded by those who follow the trend of economic currents that even were the war to be terminated before another issue of this magazine reaches its readers, little if any difference would be made in the cost of building construction. And no one looks for a speedy termination of the war. The prospective builder must thus make his comparisons of prices with the future rather than with the past; and judged by this standard the prices of to-day are probably more advantageous than any which will prevail for a long time to come.

* * *

AFTER the war there will be an unprecedented demand made upon America for building materials, by the foreign countries which have been devastated and whose constructive industries have suffered by reason of the diversion of labor, capital and enterprise to the arts of war. In fact, this demand has already commenced; for it is stated that much of our war loan to France is to be spent in this country for materials to be used in the immediate reconstruction of important buildings

which have been destroyed. Let us repeat it, then, that comparison must be made not with the past, but the future; in the light of which comparison the far-seeing owner will understand that he is merely increasing his costs by waiting. *Building will not be cheaper!*

"Canada has found that there is something to do beside standing around watching the progress of the conflict. It has discovered that work must follow along in much the accustomed channels if the Dominion is to be of as much service to the mother country as it desires to be. The result is that building operations have with the present year returned about to the normal. Here is an opportunity for us to learn from the experience of others. Let there be no cessation of building operations in this country."

* * *

THE impression is gaining strength that while present costs of materials entering into the construction of buildings appear to be high, the prospects are for prices to go to still higher levels. *The American Architect* points out that inasmuch as a dollar will buy only three-fourths as much of any commodity as it would three years ago, the cost of building is in practically the same ratio to former costs.

"It is possible to enumerate one reason after another in favor of the contention that present prices are low—not high," declares that paper. "If owners

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**BLUE
PRINTS**

can be made to see that the really pertinent comparisons of costs are with the future rather than with the past, building cannot fail to take on greater activity. Viewed in this light, present prices for building materials actually appear to be bargain prices."

Authorities for the most part seem agreed that the chances for building material prices to take a drop are quite remote, whether hostilities continue for some time or whether peace should come in the near future. It is argued that the after-war demand on our industrial resources will be infinitely greater than they have been. France has just recently closed a contract involving 200,000,000 francs, most of which sum is to be spent in America for building materials to be used in the reconstruction of important buildings in cities in the vicinity of Verdun, the Argonne and the heights of the Meuse.

The danger of a cessation of building activities does not lie so much in the impression that prices are too high as it does in an attempt to carry the economy idea to harmful lengths. Nothing could be more injurious than indiscriminate delaying of plans for building.

* * *

UNDER the caption, "Keep on Building," the *New York Real Estate Record* says:

"According to the generous manner in which this country responded, first to the appeal for the Liberty Loan and directly afterward to the nation-wide campaign for a hundred million dollar subscription for the advancement of the Red Cross work, there is no evidence of a shortage of money or that industry is to suffer materially for lack of funds. The hearty support given to both of these campaigns, particularly in the Metropolitan districts, was especially gratifying. In both campaigns the quotas of the local territory were oversubscribed by considerable amounts. The responses were by no means purely sentimental, but were exhibitions of sound sense and business sagacity.

"The evident willingness with which the people of the country generally parted with their funds for the support of these worthy objects is a mighty lesson to investors in real estate and speculative builders. It indicates that there are unlimited sums of money available when more than three billion dollars of Liberty Loan bonds are subscribed for and approximately one hundred and twenty-five millions pledged for the expansion of the Red Cross activity. This was activity. This was accomplished without a possibility of adverse financial or economic effect. A people that can command this amount of money for affairs outside of their business interests, certainly will not hesitate to expend larger

sums for the enlargement of their commercial pursuits and the gratification of personal desires.

* * *

THE present time is an excellent one to commence the erection of new structures. While it is granted that the costs of building materials are high, yet we learn from authoritative sources that they will beyond a doubt advance to higher levels where they in all probability will remain for a lengthy period. The demand for additional buildings of most all types is unquestioned. Commercial and manufacturing concerns are rapidly expanding to meet the wider application of their products and are seeking enlarged facilities for their increased businesses. Their requirements are urgent. Unless they erect structures for their own occupancy they have no means of branching out, and if they build the needed factories, ware houses and other necessary projects they tie up large amounts of capital that might better be expended in raw materials and equipment.

"The housing problem is another matter that calls for quick attention of the investor and speculative builder. From this quarter also comes a demand that is imperative. The inquiries for rentable space in modern buildings is evidence of a demand that is greater than the supply and it is growing with each day. Rents are steadily increasing for accommodations in buildings of practically every type and the owner of renting properties has an opportunity for larger returns than ever before. Paradoxical as it seems, land values have not appreciated in many parts of Greater New York in comparison with the advances in value of other commodities. While the land values continue to remain stationary at the existing levels, the builder has a splendid chance to reap large benefits from his foresight in building now.

* * *

WHATEVER the cost, men must continue to live in houses and conduct their business affairs in stores and factories. Schools must be provided for the education of the children and the entire social and commercial life of the nation must be adequately housed. Hesitation in embarking in structural enterprises will gain nothing for the builder contemplating structural improvements. According to the present outlook the longer he waits the higher the cost of construction will be, and the smaller the return on the amount of money invested. This country might as well conduct its affairs on a high plane of value as on a low. If conditions involve high expenditures they will also involve larger receipts."

SPEAKING before the Rotary Club, at a recent luncheon, Lee J. Eastman, discussing the tendency shown in many lines to economize unnecessarily remarked:

"Every intelligent citizen knows that we are engaged in a serious war and we have implicit confidence in the ultimate victory of the side on which we are allied, there is no use denying the fact that we have a Herculean task before us.

"Without a doubt, it is a time that calls for a curtailment of wastefulness and this appeals particularly to the problem of the food supply. Every housewife who practices judicious economy puts herself in the ranks of those who serve the nation.

"But it is not meant that we must close our purse strings, nor that we must hoard our money. There is little difference between the man who hoards provisions and the man who hoards his money. Both are a public enemy in this crisis.

"The President means that a curb should be put on extravagance and waste. To most effectively serve our country we must economize in the right way. We must think and act sanely. False economy would prove as disastrous as reckless extravagance.

* * *

WE must economize in a way so as to work the least possible injury to the business interests of the country and to the hundreds of thousands of employees who are dependent for their livelihood, on the factories and shops being kept open as usual.

"Should we suddenly close our purse strings and stop making purchases, the effect upon the factories and shops would be immediate. Many of them would be forced out of business and very shortly we would find the streets of our cities and towns choked with the unemployed, clamoring for bread. That would certainly not be a situation favorable to the successful conduct of the war.

"Economy, if intelligently exercised, is always commendable, but forced, artificial economy, if carried to the extreme, will bring about the very calamity it is intended to avert.

* * *

IT is of the very first importance that the country continue its legitimate business undisturbed. Any sudden or radical cutting down of expenditure in the legitimate channels of trade, will work a tremendous harm to the business interests of the country and indirectly to the hundreds of thousands dependent upon them.

"If our people should suddenly discharge their servants, and dispose of their automobiles, if husband, wife and daughter should stop ordering from tail-

ors, shirt makers, milliners and dress-makers, or from the big stores, if restaurants, theatres and concert halls are deserted, if there comes a sudden cessation in business activity, such widespread distress would result in the business life of the community that no man can say what the outcome would be, and millions of innocent persons would suffer.

"It is estimated that within the coming twelve months, there will be spent in this country, between seven and ten billions of dollars. There is every evidence that to a great measure this sum will be economically and judiciously expended and will find its way into all channels of trade.

"It is difficult for the ordinary business man to conceive the enormity of this expenditure.

"America with its marvelous growth in population and industrial wealth has never experienced anything compared to it.

"There can be no business depression if we keep our heads and act sanely."

* * *

EDWARD N. HURLEY, former chairman of the Federal Trade Commission and now a member of the War Council of the American Red Cross hits the nail squarely on the head when he observed in a recent address:

"We should be able to meet the war bills out of our surplus energy. This is the best contribution that business men can make. There is no need for disturbing any wage or hour standard. If a man works eight hours a day, let him put

a little more heart into his task and he will find that his productive energy will increase materially. Let the business man conduct his business a little more vigorously; let him work out his cost sheets; and get his prices where they ought to be, and he will find that he is making enough extra money to pay for taxes and liberty bonds. That should be his bit in the war."

* * *

THE moral of all this is to keep plugging much as usual. If prices are high in the material market selling prices or finished construction are correspondingly high. If deliveries are difficult in certain lines there is usually a way around the difficulty. The labor problem is admittedly acute, but even that may be expected to settle itself within a very brief space of time. What is needed is the cool head, the steady nerve, faith in American ingenuity and American resources, and the vision to make the most of opportunities. - As the *Chamber of Commerce Journal* puts it:

"Faith is the great need of the people to-day—faith in Providence to lend might to our right; faith in nature to respond bountifully to the wonderful efforts of our agriculturalists to increase the food supply, to provide a surplus for our Allies, and faith in our Government which has taken hold of the problems before it in a way that demonstrated that it is deserving of our faith."

"Be confident and live your normal lives as far as possible. Make business proceed as usual."

compensated accidents were about sixty thousand, involving compensation amounting to \$11,500,000.

* * *

A number of builders in the warmer regions of the United States have adopted the tropical idea of constructing double roofs, with an air space of about 6 inches between. This serves to protect the upper story from the direct heat of the sun.

* * *

The second annual White Pine Architectural Competition was judged at The Greenbrier, White Sulphur Springs, West Virginia, by Architects Aymar Embury, II, Wilson Eyre, Charles Barton Keen, John Russell Pope, and Alexander Trowbridge, who composed the jury of award. Four prizes and eight mention designs were selected from almost three hundred drawings submitted. The first prize was awarded to Winchton L. Risley and James Perry Wilson, associated, of New York; the second prize to Jerauld Dahler, of New York; the third prize to Olaf William Shelgren, of Buffalo, N. Y.; the fourth prize to Sotaro Y. Ohta, of New York. The mentions were awarded to Louis J. Farmer, of New York; C. M. Foster and W. M. Smith, associated, of New York; Daniel Neilniger, of New York; Stanley P. Parker, of Boston; Richard M. Powers, of Boston; Chester B. Price, of New York; Satterlee & Boyd, of New York, and Benj. Schreyer, of New York. The detailed report of the jury will be published in the August number of the "White Pine Series of Architectural Monographs," together with the prize and mention designs.

* * *

The Department of Commerce has issued, at a price of 15 cents, Circular No. 47 of the Bureau of Standards, which is entitled "Units of Weights and Measures—Definitions and Tables of Equivalents," which contains sixty-eight pages of definitions and translation tables for converting U. S. customary units into metric units and vice-versa. This circular is of particular value to those engaged in foreign trade or in scientific or technical work and it may be obtained by sending the price to the Superintendent of Documents, Government Printing Office, Washington, D. C.

* * *

At the annual meeting of Sargent & Co., New Haven, Conn., Wilfred Lewis and Ziegler Sargent were elected as directors of the company and the following members of the board of directors were re-elected: Henry B. Sargent, Edward R. Sargent, Joseph D. Sargent, G. Lewis Sargent, John Sargent, Bruce Fenn and George F. Wiepert. The new officers of the company are as follows: President, Henry B. Sargent; vice-president, G. Lewis Sargent; secretary, Murray Sargent; treasurer, Ziegler Sargent.

* * *

General building construction, or that part of it mainly dependent upon fabricated steel, is anxiously awaiting the expected Governmental action on prices. The present outlook is that it will have a decided effect in easing the market and will greatly stimulate the

EDITORIAL NOTES

Building superintendents in New York City have just organized the New York Building Superintendent's Association. The object of the association is to promote a fraternal spirit of co-operation and the attainment of greater efficiency and economy in the care, maintenance and operation of buildings. The active membership list is confined to those engaged in superintending buildings located in the city of New York. An executive committee consisting of Harry G. West, Joseph R. Harley, G. D. Andrews, J. Wadlington, George Boge and W. G. Chapman was elected, and this committee and the officers of the association will constitute its management. The executive committee has the authority to employ, discharge and fix the duties and compensation of the employees of the association. The initiation fee is \$10 a year, which also covers the dues for the first three months, and the annual due have been placed at \$12. The officers of the association are as follows: F. W. Douglas, president; Robert MacGregor,

vice-president; S. C. Wells, secretary, and George Escobal, treasurer.

* * *

First steps have been taken toward reconstructing the devastated districts of Northern France through the organization in Paris of the Association de l'Aisne Devastee. The rehabilitation of this vast section will involve millions of dollars and enormous quantities of material. American capital and enterprise will play no small part in restoring the ruins of to-day into the thriving residential and industrial communities of to-morrow.

* * *

At the Industrial Safety Congress recently held at Syracuse, N. Y., Commissioner James M. Lynch, of the New York State Industrial Commission, made the statement that if the accidents in this State could be reduced ten per cent. the actual saving to the employers in compensation charges alone would more than pay for all of the activities of the Commission. During 1916 the total number of

building industry in all parts of the country. The price of fabricated steel has been advanced to a still higher level. Mill shipments of steel shapes are now quoted at 4.669c. to 5.169c. New York, for delivery in one to four months.

* * *

The price of lime has been advanced, and the new schedules went into effect last week. Eastern finishing is now selling at \$2.10 a barrel of 280 pounds net and masons' common at \$1.90 a barrel. While the demand for lime is not particularly heavy the prices are firm and there is no possibility of a cut for some time. The outlook in the building situation has improved to a certain extent and this will naturally reflect in better conditions in the lime market.

* * *

National Electric Credit Association held its eighteenth annual meeting at the Biston City Club, Boston, Mass., last week. The hotel headquarters were at the Copley-Plaza. The annual meeting was an innovation this year, as it was the first time that a fixed program had been scheduled. Among the subjects that were discussed at this meeting were the following: "The Scope of the Electrical Credit Association," by Guy V. Williams, New York City; "Trade Acceptances," by J. D. Meek, Indianapolis Electric Supply Company; "What and Why Is the Cash Discount?" by David Kerr, Lewis Electrical Supply Company, Boston; "Should Interest Be Charged on Overdue Accounts?" by D. E. Crane, Macbeth-Evans Glass Company, Pittsburgh; "The Small Risk—Definition, Exploitation and Control," by R. P. Tracy, Joseph E. Greene Company, Boston; "Contractors' Accounting Methods—The Best Credit Barometer," by J. W. Smith, General Electric Company, New York City, and "Municipal Mumps—Prevention and Cure," by J. F. Thomas, Elliott-Lewis Electrical Company, Philadelphia.

* * *

American Society for Testing Materials held its twentieth annual meeting at Atlantic City. Among the subjects discussed which were of interest to engineers are the following: "Electrical Insulation," C. E. Skinner; "Corrosion of Iron and Steel," S. S. Voorhees; "Some Applications of Magnetic Analysis to the Study of Steel Products," C. W. Burrows; "Interior Surface Defects in Brass Condenser Tubes as a Cause for Corrosion," W. Reuben Webster; "The Hardness of Hard-Drawn Copper," D. H. Pierce; "The Electrolytic Determination of Tin on Tinned Copper Wire," George G. Grower; "Preservative Coatings for Structural Materials," E. H. Walker; "Lubricants," C. C. Van Gundy; "Comparison of the Heat-Insulating Properties of Materials Used in Fire-Resistive Construction," W. A. Hull; "Refractories," A. V. Bleininger, and "Suggested Improvements in the Manufacture of Silica Brick," C. E. Nesbitt and M. L. Bell.

* * *

The Westinghouse Electric and Manufact-

uring Company held its regular meeting of the board of directors in New York recently. An extra dividend of one-half of 1 per cent. was declared on both the common and the preferred stock for the benefit of the Red Cross fund. The following officers were elected: Chairman of the board, G. E. Tripp; president, E. M. Herr; vice-presidents, L. A. Osborne, C. A. Terry and H. P. Davis; acting vice-president, T. P. Gaylord; comptroller and secretary, J. C. Bennett; assistant secretary, W. H. Jones; assistant treasurer and secretary, S. H. Anderson; auditor, F. E. Craig; assistant auditor, W. B. Covil. Three new vice-presidential offices were created, and the following were elected to fill them: H. B. Shute, H. T. Herr and W. Cary. H. F. Baetz was elected to succeed Mr. Shute as treasurer, while L. W. Lyons succeeds Mr. Baetz. W. J. Patterson was elected to the new position of assistant auditor.

BOOKS RECEIVED.

The Typography of Advertisements that Pay.

By Gilbert P. Farrar. D. Appleton & Co., New York City. Illustrated. Price, \$2.25 net.

Here is, unqualifiedly and by long odds, the most practical and lucid volume on what might be called the "mechanism" of advertisement construction that has ever been given to the public. It is the very A, B, C of good advertising, written by a man who knows every phase of his subject, and made so plain and easy to grasp that a child could understand it. Mr. Farrar has avoided the error of judgment, common to men who write upon the subject of advertising, of over-emphasizing the "How to Write" side of the question. What Mr. Farrar sets out to show, and he has succeeded beyond measure, is how to build good advertising. He explains why certain forms of arrangement are better than others; why certain classes of advertising call for distinctive types and illustrations; why the style of arrangement that is good in one kind of an "ad" is ineffective and ill-adapted for another, and a host of other points of the practical sort that the man will need to know who aims to write and prepare "advertisements that pay." Mr. Farrar explains the point system, gives his reader a comprehensive idea of the best type faces and their sizes, covers the subject of illustrations and borders, reproduces page after page of "ads" covering a wide range of products and analyses with the sureness of an expert the merits and defects of each. The man of intelligence, of native wit and selling ability, who cannot prepare a good advertisement after reading Mr. Farrar's valuable little volume may be set down as a hopeless case. He is beyond teaching. "The Typography of Advertisements that Pay" is, in our judgment, the most valuable contribution to the literature of advertising that we have ever read. It is practically invaluable to the man whose aim is an intelligent mastery of the "mechanics" of ad-building.

WALL COVERINGS.

"The ideal material for wall coverings is a wide unbleached muslin. This can be obtained up to fifteen feet in width, and is put on with regular wallpaper paste, which is a preparation of dextrin. While the paste is still wet, a coat of glue and ochre is thoroughly scrubbed into the weave of the muslin. When this is dry two consecutive coats of lead and oil are applied, the last coat containing a flattener to give the mat finish. When this is completed, including what decorations are desired, the entire surface is given a coat of buttermilk and starch, which preserves the surface from the attack of dirt and soot.

"When the wall or ceiling becomes grimy with dirt, a thin solution of paste, thoroughly brushed on the surface and then wiped off with a sponge with lukewarm water, leaves the surface as clean as when it was originally painted. Then a fresh coat of buttermilk and starch is put on to preserve it until the next washing.

"Another material is paint applied directly to the plaster. This is not so desirable as the muslin, for plaster as it dries through the years is likely to shrink and leave small pin cracks.

"Still a third material is water color, or so-called 'kalsomine.' This requires: first of all, the application of a coat of glue sizing, to make the plaster impervious to moisture. This makes necessary only one coat of color. The soft mat effect produced by this method is very delightful, but—any water which comes in contact with this surface makes an ugly spot.

"Several of the best designers, such as Sir William Morris, Walter Crane and Voysey, have given much attention to wallpaper designs, and where their designs are worked out by the hand-blocking process they are very beautiful.

"Wallpaper originated with the Chinese. Thomas Chippendale brought back from his trip to the Orient a number of examples of these paper wall hangings, and, having at that time an influence on interior decorating, he started a fad for these Chinese papers. It was the custom when building a house in those days to fit heavy cartridge paper to the plastered surface and then send it to China by some merchant calling at Hong Kong or Canton, to be decorated by these well-known Chinese artists and returned to England to be installed in its place.

"Many of the well-known English manor houses to-day are decorated with these interesting documents, which may be said to have been the origin of paper used as wall hangings. From England the use of papers spread to France, and here the eighteenth century gave to the world some of the most interesting designs in hand-blocked papers that have ever been produced."—From "The Healthful House," by Lionel Robertson and T. C. O'Donnell. (Reviewed.)

Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alt. and add.), Chestnut Hill, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Samuel W. Morris, Girard Trust Co., Broad and Chestnut streets. Stone and brick, 4 stories, addition, 36x30 feet (hot air heating, plumbing and electric work reserved), slate roof, pine and oak floors. Architects taking bids, due July 23rd. J. P. Thompson, Real Estate Trust Building, is figuring (only bidder).

Stores and Apartments (alt. and add.), Broad and Allegheny avenue. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Crumbie Bros., on premises. Brick and terra cotta, 3 stories, 65x160 feet, slag roof, steam heat, electric lighting, tile and marble work, pine floors, metal lath. Plans completed. Architect ready for bids.

Store and Office Building (alt.), 1214 Walnut street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, William L. Ludascher, Westmoreland street and Delaware avenue. Brick and stucco, 3½ stories, steam or hot water heating, electric lighting, tile and marble work, pine floors, metal lath, ornamental iron work. Revised plans in progress. Owner will be ready for sub-bids in about one week.

Crematory, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, slag roof, reinforced concrete floors. Owners ready for bids, due July 30th.

Office Building (add.), 222-224 Walnut st., Philadelphia. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owners, Charles E. Mather & Co., 226 Walnut street, Philadelphia. Reinforced concrete, brick and stone, 1 story and basement, 136x64 feet, asbestos roof, maple floors, rolled steel sash and hollow metal sash and skylights, hollow tile and metal lath and window guards, waterproofing and dampproofing, wire work, ornamental iron work. Architect taking bids, due July 20th. John N. Gill & Sons, Otis Building; J. Myers & Sons Co., Witherspoon Building; Wills-Ludwick Co., 34 South Seventeenth st.; Thomas M. Seeds, Jr., Co., 1207 Race street, and A. R. Raff Const. Co., 1635 Thompson street, are figuring.

Court Room No. 453 (alt.), City Hall, Philadelphia. Architect, Joseph A. Poletter, City Hall, Philadelphia. Owners, City of Philadelphia, City Hall, Philadelphia. Brick, mill-work, composition floors, marble work, metal lath, ornamental iron work. Owners taking bids, due July 20th. Hogg Const. Co., 1634 Sansom street; Mitchell Bros., 2125 Race street; John H. Jordan, Thirty-first and Oxford streets, and George Dobbin, 414 South Forty-first street, are figuring.

Caretaker's House, Queen Park, Philadelphia. Architect, Louis A. Marie, City Hall,

Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, Room 113, City Hall. Brick, 2½ stories, 16x13 feet, slate roof, cement floors. Owners taking revised bids, due July 20th. Hogg Const. Co., 1634 Sansom street; John H. Jordan, Thirty-first and Oxford streets; E. C. Durell, 1713 North Twenty-fourth street, and George Dobbin & Co., 414 South Forty-first street, are figuring.

Residence (alt. and add.), 1522 Locust street, Philadelphia. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Dr. M. W. Zimmerman, on premises. Brick, 2 story addition, 12x6 feet, tin roof, pine floors, hollow metal skylights (heating and electric work reserved). Architect taking bids, due July 18th. W. O. Springer, 1624 Latimer street; T. C. Trafford, 1613 Sansom street; F. B. Davis, 240 North Sixteenth street; Wm. R. Dougherty, 1610 Sansom street, and Milton S. Grawl, Bulletin Building, are figuring.

Sales and Storage Building (alt. and add.), 1911 Chestnut street. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Joseph Habisreiter, 1604 Chestnut street. Brick and terra cotta, 4 stories and basement, 25x178 feet, two story addition, 45x40 feet, slag roof, cement and pine floors, tile and marble work, metal lath (plumbing, heat and electric work reserved). Architect taking bids, due July 19th. I. A. Dunkelberger, 71 East Herman street; R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Baton, 1713 Sansom street; Graham-Campion Co., Otis Building; Wm. Chas. Doll Co., 201 North Broad street; F. A. Havens Co., 845 North Nineteenth street; F. E. Wallace, 1220 Chancellor street, and John N. Gill & Co., Otis Building, are figuring.

Sales and Service Building, 1315-17 Vine street. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Auto Radiator Co., on premises. Brick and steel, 2 stories, 30x80 feet, slag roof, steam heating, electric lighting, hollow metal skylights, pine floors, metal lath. Plans completed. Architect ready for bids.

Garage and Service Station, Central, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner's name withheld. Brick (slow burning), 1 story, 40x165 feet, slag roof, cement floor (plumbing, steam heating, electric work, gasoline storage system reserved), hollow metal skylights. Plans in progress. Architect will take bids in a week.

Store and Dwelling (alt.), 4050 Girard avenue, Philadelphia, \$2,000. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Philip Green, 1201 North Forty-first street, Philadelphia. Brick, 3 stories, alteration to first floor, mill work, office partitions, hot water heating, electric lighting, tile

work, flush bulks. Plans completed. Owner ready for sub-bids.

Store and Rooming House (alt. and add.), 805-07 Vine street, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, M. Shapiro, on premises. Brick and steel, 1 story rear addition, 12x20 feet, and alteration to first floor, slag or tin roof, maple and cement floors, electric lighting, tile and marble work, metal lath, hollow metal skylights, flush bulks. Plans completed. Owner taking bids.

Factory (add.), 1008 North Orkney street. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Samuel Zeitlin, 1004-06 North Orkney street, Philadelphia. Brick, two-story addition, 16x48 feet, slag roof, cement and pine floors, electric lighting, ornamental iron work. Plans completed. Owner taking bids.

Dry Kilns, Tacony, Philadelphia. Architect, Grand Rapids Veneer Works, Dry Kiln Department, Grand Rapids, Mich. Owners, Henry Disston & Sons, Inc., Tacony, Philadelphia. Reinforced concrete and brick, 1 story, 64x34 feet, shed roof, hollow tile, wire work. Owners have received bids.

Passenger Station (alt. and add.), Chestnut Hill, Philadelphia, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Consists of shelters and platforms (2), 1 story, 400 feet long, steel and frame, cement and asphalt floors, safety treads, ornamental iron work (cement and steel reserved). Owners taking bids, due July 20th. Pringle Borthwick, 8018 Germantown avenue; F. A. Havens & Co., 845 North Nineteenth street; Roydhouse-Arey Co., 112 North Broad street; Brann & Stuart, Commercial Trust Building; H. H. Wehmeyer, 1004 Lehigh avenue; Fred Elvidge & Son, 5522 Germantown avenue; John N. Gill & Co., Otis Building; Mitchell Bros., 2125 Race street; Charles McCaul Co., 1713 Sansom street; Wm. Charles Doll Co., 201 North Broad street, and W. H. Fissell, Thirty-fourth and Broadway, New York City, are figuring.

Central Library, Nineteenth and the Parkway. Architect, Horace Trumbauer, Land Title Building. Owners, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets. Limestone and granite, 3 stories, 207x328 feet, tile, slag and copper roof, steam heating, electric lighting, 4 passenger elevators, 6 freight and book elevators, marble, tile and cork floors, kalamein sash, steel doors, ventilators, waterproofing and dampproofing, metal lath (steam heating, electric lighting, plumbing and ventilating, separate bids). Low bidders: George A. Fuller Co., Widener Building, Philadelphia, \$2,570,000, stone cut in Philadelphia; \$2,415,000, stone cut outside of Philadelphia. John Gill & Sons Co., Cleveland, Ohio, \$2,535,000, stone

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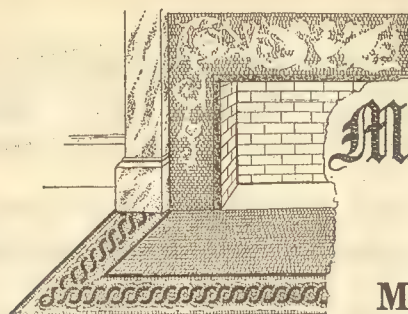
Church (alt.), Rector and Chesson streets, Manayunk, Philadelphia. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Church of St. John the Baptist, care of Rev. Eugene Murphy, 146 Rector street. Stone (tile and marble work reserved), carpenter work, reinforced concrete and marble steps, iron stairs. Architect has received bids.

Toilet and Wash Room, Ninth and Noble streets, Philadelphia. Architect, private plans. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, consists of alteration to third floor, plumbing, electric lighting, metal lath, concrete floors. Owners taking bids, due as soon as possible. Monaghan & Losse, Inc., 3016 Chestnut street; Stacy Reeves & Son, 2011 Market street, and A. L. Carhart, Hale Building, are figuring.

School, west side of Madison street, Philadelphia. Architect, Louis G. Giele, 1123 Broadway, New York City. Owners, St. Adalbert's parish, Rev. M. Monkiewicz, 2645 East Allegheny avenue, Philadelphia. Reinforced concrete and brick, 3 stories, 44x64 feet, and 1 story, 21x27 feet, slate or slag roof, pine and maple floors, hollow tile, metal ceilings, steam heating, electric lighting, marble and terrazzo work, hollow metal skylights, fire doors, iron stairs, ornamental iron work. Owners have received bids.

Garage (48 cars), Fifty-fifth and Sansom streets, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Samuel Mitchell, 405 South Sixtieth street, Philadelphia. Brick, 1 story, 105x125 feet, slag roof, steam heating, electric lighting, cement floors (gasoline storage system reserved). Owner taking bids, due as soon as possible. Mitchell Bros., 2125 Race street, and J. D. Fisher, 5424 Thompson street, are figuring.

Office, Garage and Stable, Allegheny and Glenwood avenues. Architect, Fred. T. Uetzell, 147 North Third street, Philadelphia. Owners, F. J. Wittmaier & Son, 917 Tioga street, Philadelphia. Brick, 2 stories, 18x26 feet; 1 story, 18x20 feet, and 2 stories, 18x80 feet, slag roof, steam or hot water heating, electric lighting, cement floors, tile work, concrete work, gasoline storage system. Plans



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in progress. Architect will be ready for bids in about ten days.

Garage, 1630 North Franklin street, Philadelphia. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owner, Samuel Englander, on premises. Brick, 1 story, 12x20 feet, tin roof, cement floors (plumbing, heating and electric work reserved). Architect taking bids, due as soon as possible. Julius Solomon, 1828 North Franklin street, is figuring.

Residences (47) and Garages, Sixtieth and Jefferson streets. Architect, private plans. Owner, J. C. Boggs, 317 South Fifty-sixth street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hot water heating, combination lighting, tile work, hardwood, pine and cement floors, metal lath. Owner taking sub-bids.

Hotel and Restaurant (remodeling), 215 S. Broad street, \$50,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Daniel J. Kopp, 5355 Baltimore avenue, Philadelphia. Brick, stone and steel, 4 stories and basement, 20x98 feet (heating, electric work and 2 elevators reserved), cement floors, tile and marble and terrazzo work, metal lath, hollow metal skylights, roof ventilators, iron stairs, ornamental iron work. Architect has received bids.

Residence (alt.), 1308 North Broad street, Philadelphia. Architect, Carl P. Berger, 1416 South Penn Square. Owner, Dr. Louis Jurist, 916 North Broad street. Brick and stone, 3 stories, tile roof (plumbing, electric work, paperhanging reserved), alteration to hot water heating system, cement and parquet floors, tile and marble work, hollow metal skylights, metal lath. Architect has received bids.

Elevated Stations (5), Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, William S. Twining, Director, Room 754, Bourse Building, Philadelphia. Brick, stone, steel, concrete and terra cotta, 3 stories and basement, slag roofs, cement floors, hollow tile, tile, marble and terrazzo work, rolled steel sash and skylights, fire doors, ornamental iron work, metal lath, safety treads, roof ventilators, metal ceiling (plumbing, electric work and elevators separ-

ate bids, contracts Nos. 622-623), hollow metal doors, iron stairs and sash. Low bidders: Contract 616, Allegheny avenue station, 42x42 feet: Standard Const. Co., 1713 Sansom st., \$121,000; Melody & Keating, 1322 Race street, \$129,000. Contract 617, Tioga street station, 57x20 feet: Standard Const. Co., 1713 Sansom street, \$117,000; Melody & Keating, 1322 Race street, \$124,700. Contract 618, Torresdale avenue station, 49x22 feet: Standard Const. Co., 1713 Sansom street, \$92,000; Melody & Keating, 1322 Race street, \$102,000. Contract 619, Ruan-Church street station, 50x25 feet: Standard Const. Co., 1713 Sansom street, \$89,500; Melody & Keating, 1322 Race street, \$99,000. Contract 620, Orthodox street station, 53x21 feet: Standard Const. Co., 1713 Sansom street, \$92,500; Melody & Keating, 1322 Race street, \$102,200.

Stable, Garage and Repair Building, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, 1 story, 99x239 feet, asbestos roof, cement and wood floors, steam heat, electric light, rolled steel sash, fire and hollow metal doors, ornamental iron work, roof ventilators, gasoline storage system. Owners have received bids.

Office Building, 131214 Chestnut street, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Cunningham Piano Co., 1101 Chestnut street, Philadelphia. Brick, stone, steel and terra cotta, 12 stories, 40x104 feet. Plans in progress.

Office Building (int. alt.), 315 Arch street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Charles E. Schmidt, 327 Arch street, Philadelphia. Consists of interior alterations to third floor, office partitions, electric lighting, hollow metal sash, metal lath, mill work. Architect taking sub-bids.

Theatre, Studio, Stores and Office Building, Broad, below Locust street, Philadelphia. Architect, H. J. Krapp, 114 East Sixteenth street, New York City. Owners, David Berg, Samuel Tauber & Philip Publiker, care of

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BOTH PHONES

Berheimer & Sundheim, 1001 Chestnut street, Philadelphia. Theatre, 80x140 feet; lobby, 20x60 feet; office building, 10 stories, 90x60 feet, reinforced concrete, brick, steel and terra cotta. Plans in progress.

Apartment House, Redfield and Chestnut streets, Philadelphia. Architect, Arnold Aberhard, Crozer Building, Philadelphia. Owner, Charles A. Mory, 424 North Fortieth street, Philadelphia. Brick, terra cotta trim, 4 stories, 37x76 feet, slag roof, steam heat, electric lighting, tile work, hardwood floors, fire doors, metal lath, roof ventilators. Architect taking bids, due July 27th. (Note extension.) Conneen Const. Co., 1737 Filbert street; P. J. Hurley, 1233 Cherry street; Charles McCaul Co., 1713 Sansom street; Raith Const. Co., 304 West Master street, and Philip Haibach Const. Co., Twenty-sixth and Thompson streets, are figuring, in addition to those previously reported.

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Contracts Awarded

Scope of Contract and Successful Bidders; “Inside” Information for the Material Man and Interior and Exterior Fitter.

Office Building, Fifty-eighth and Woodland avenue, Philadelphia, \$12,000. Architect, private plans. Owners, J. Gibson McIlvaine & Co., on premises. Stone, brick and reinforced concrete, 2 stories and basement, 47x32 feet, slag roof (lighting reserved), hot water heating, maple floors, marble and terrazzo work, hollow metal sash, kalamein doors, metal lath, safety treads, ornamental iron work, wire work. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Sunday School, Island Road and Lyons avenue, \$10,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Mt. Calvary Presbyterian Chapel, 5247 Locust street. Stone, 1 story and basement, 65x60 feet, slag roof, pine floors (lighting and heating reserved). Contract awarded to E. J. Kreitzburg, 1345 Arch street, Philadelphia.

School (add.), Forty-eighth and Wyalusing avenue, Philadelphia, \$6,500. Architect, private plans. Owners, Our Mother of Sorrows' R. C. Church, care of Rt. Rev. Bishop John J. McCort, Forty-eighth and Lancaster avenue, Philadelphia. Brick (toilet room additions), 1 story, 41x20 feet and 23x30 feet, slate roof, plumbing, electric lighting, cement floors. Contract awarded to James Doyle & Sons, 878 North Forty-sixth street, Philadelphia.

Packing Plant (alt. and add.), West Philadelphia Stock Yards, \$120,000. Architect, C. B. Comstock, 110 East Fortieth street, New York City. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and reinforced concrete, 2 stories, 61x125 feet, asbestos, reinforced concrete and composition roof (elevators and electric work reserved), rolled steel sash, hollow metal skylights, reinforced concrete and brick floors, hollow tile, roof ventilators, metal window guards, waterproofing, iron stairs. Contract awarded to Wm. Chas. Doll Co., 201 North Broad street.

Storage Shed, Thirty-ninth and Powelton

avenue, \$15,000. Architect, private plans. Owners, George W. Smith & Co., 3907 Powelton avenue, Philadelphia. Frame, 1 story, 40x150 feet, slag roof, cement floors, plumbing, rolled steel sash. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Steel Tank Tower and Wooden Tank, 826 South Swanson street. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, J. Milton Hagy Waste Works, Inc., on premises. Brick and steel, 15,000 gallon cedar tank, iron ladder. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Dwelling (remodeling into store and apartments.), Ninth and South streets, Philadelphia, \$5,000. Architects, Druckenmiller & Williams, Land Title Building. Owner, Mahlon W. Newton, Green's Hotel, Philadelphia. Brick and terra cotta, 3 stories, 17x100 feet, slag roof, steam heating, electric lighting, tile and marble work, flush bulks, maple floors, metal lath. Contract awarded to D. P. Cloud, 1407 South Fifty-eighth street, Philadelphia.

Residence (alt.), Towanda avenue, Chestnut Hill, Pa., \$10,000. Architects, Tilden & Register, 1713 Sansom street, Philadelphia. Owner, Harold W. Jeffrey, care of architect. Sleeping porch additions, frame, plumbing, electric lighting, tile and marble work, oak floors, metal lath, mill work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Storage Building, American and Huntingdon streets, \$6,000. Architect, private plans. Owners, Trussed Concrete Steel Co., Commonwealth Building. Brick, 1 story, 50x90 feet, slag roof, cement floors, electric lighting, rolled steel sash, fire doors. Contract awarded to Harrison C. Rea Co., 1314 Arch street, Philadelphia.

Garage (alt. and add.), 118 Queen street, Philadelphia. Architect, David A. Supowitz, 1118 Chestnut street, Philadelphia. Owner, A.

Milles, on premises. Brick, 1 story, 36x92 feet, consists of general alterations, new brick walls, slag roof, cement floors, electric lighting, gasoline storage system. Contract awarded to F. Nardy & Co., 1228 Fitzwater street, Philadelphia.

Residence (alt. and add.), 1421 North Fifteenth street, \$3,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, Dr. Ludwig Loeb, on premises. Brick, 3 stories, one-story addition, vapor heating, electric lighting, maple floors, plastering, painting. Contract awarded to Freund Const. Co., Bulletin Building, Philadelphia.

Motion Picture Theatre (add.), Front and Girard avenue, Philadelphia, \$27,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Jumbo Amusement Co., Front and Girard avenue. Brick and steel, 1 story, 36x104 feet, composition roof, concrete floors, steam heating extension, electric lighting, marble and terrazzo work, hollow metal sash, fire doors, hollow tile, metal lath, roof ventilators, waterproofing, ornamental iron work. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Garage, 1630 North Franklin street, Philadelphia. Architect, Louis Magaziner, 630 Chestnut street. Owner, Samuel Englander, on premises. Brick, 1 story, 12x18 feet, tin roof, cement floor (plumbing, heating and electric work reserved). Contract awarded to Julius Solomon, 1828 North Franklin street, Philadelphia.

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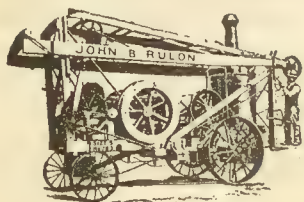
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PENNSYLVANIA Construction News

Hotel, Northampton Heights, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, James F. Miller, South Bethlehem, Pa. Brick, 3 stories and basement, 43x85 feet, slag and Spanish tile roof, steam or hot water heating, electric lighting, tile and marble work, fire escapes. Architect is taking bids.

Home, Fourth and Hamilton streets, Allentown, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owners, Rescue Mission, Allentown, Pa. Brick, 3 stories and basement, 40x100 feet, composition roof, pine and composition floors (vapor heating, gas and electric lighting reserved), pine and composition floors, hollow tile, dumb waiter, iron stairs. Plans in progress.

Store and Apartment House, Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Jere F. Quinlin, Bethlehem, Pa. Brick, 3 stories, slag roof, pine floors (electric lighting and heating reserved). Architect has received bids.

Turkish Baths, 809 East Fourth street, South Bethlehem, Pa. Architect, H. J. Weigner, Bethlehem Trust Co., Bethlehem, Pa. Owner, Peter Rull, South Bethlehem, Pa. Brick, 2 stories and basement, 30x115 feet, Barrett roof (high power steam heating and electric lighting reserved), tile and marble work, cement and yellow pine floors, metal lath, roof ventilators. Plans in progress.

Factory (alt. and add.), Easton, Pa. Architect, A. D. Chidsey, Drake Building, Easton, Pa. Owners, Eschenbach Printing Co., Easton, Pa. Brick, 2 stories, 55x40 feet, city steam heat extension, rolled steel sash and skylights, pine floors. Plans in progress.

Garage, Bethlehem, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owner, P. E. Weinland, Bethlehem, Pa. Brick, 1½ stories, 22x24 feet, slate roof, cement floors, gasoline storage system. Plans completed.

Store Front, 413 Hamilton street, Allentown, Pa. Architect, L. S. Jacoby, Allentown, Pa. Owner, L. Barban, on premises. Consists of store front, 20x50 feet, metal bulks. Plans completed.

Chapel, Edgeboro, Bethlehem, Pa., \$10,000. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Moravian congregation, care of Emil Bishop, chairman, Edgeboro, Bethlehem, Pa. Brick, 1 story, 30x45 feet, slate roof, hot water heating, electric lighting, wood floors. Architect taking approximate bids. F. F. Speck, Bethlehem, Pa., is figuring.

Apartment House, Allentown, Pa. Archi-

tect, H. J. Weigner, Bethlehem, Pa. Owner, George Fisher, Allentown, Pa. Brick, 3 stories, 75x17 feet, slag roof (steam heating, electric lighting, plumbing fixtures reserved), pine floors. Plans completed. Architect ready for bids.

School (Fairview) (alt. and add.), Easton, Pa. Architect, Robert E. Ochs, City Realty Building, Bethlehem, Pa. Owners, Board of Education, Wilson Township, Mr. Stover, 1810 Northampton street, secretary, Easton, Pa. Brick, 2 stories, 12x30 feet, Barrett roof, cement floors, iron railing, plumbing. Owner has received bids.

Residence, Chester, Pa. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owner, H. J. Klaer, care of architects, Stone, 2½ stories, 54x69 feet, slate and tin roof, pine and cement floors, hot water heating, electric lighting, tile and marble work, metal lath, dampproofing. Architects taking bids, due July 23rd. R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Grau Co., 1709 Sansom street; Pringle Borthwick, 8018 Germantown avenue; James B. Flounders, 1329 Arch street, and Wm. Provost, Jr., Chester, Pa., are figuring.

Colling Tower Foundation and Drip Pans, Midvale, Pa. Architect, private plans. Owners, the Midvale Steel Co., Widener Building, Philadelphia. Reinforced concrete, 30x31 feet. Owners taking bids, due as soon as possible. Barclay White & Co., 1713 Sansom street; Metzger & Fisher, Otis Building; Wark-Yardley Co., 1737 Filbert street; Concrete Const. Co., 1620 Thompson street, and Interstate Eng. and Const. Co., Inc., Coleman Building, are figuring.

Rectory, Holmesburg, Pa. Architect, Paul A. Monaghan, Drexel Building, Philadelphia. Owner's name withheld. Stone, 3 stories, 24x50 feet, slag roof, pine and cement floors, metal lath (steam heat reserved), electric lighting, tile and marble work. Revised plans completed. Architect ready for bids.

Bungalow, Parkside, Pa. Architect, Maurice Golden, Crozier Building, Chester, Pa. Owner, Ellis I. Larimer, Crozier Building, Chester, Pa. Frame, 1½ stories, 24x37 feet, shingle roof, hot water heating, pine floors. Plans complete. Owner will take sub-bids.

Store and Garage, Chester, Pa. Architect, S. S. Conner, Chester, Pa. Owner, Wm. E. Headly, Chester, Pa. Brick, 1 story, 22x40 feet, slag roof, pine floors, electric lighting. Owner taking bids, due as soon as possible.

Residence, Chester, Pa. Architect, S. S. Conner, Chester, Pa. Owner, Walter Jones,

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Chester, Pa. Brick, 2½ stories, 28x34 feet, slag roof, hot water heating, electric lighting, hardwood and pine floors. Owner taking bids, due as soon as possible.

Foundry (add.), Royersford, Pa. Architect, Arthur Kepner, Pottstown, Pa. Owner, Lloyd Wells, Royersford, Pa. Brick, 1 story. Plans in progress.

Bungalow, Kutztown Road, Reading, Pa. Architect, C. J. Young, Reading, Pa. Owner, W. H. Cook, Muhlenberg Township, Berks County, Pa. Frame and hollow tile and stucco, 1½ stories, 50x34 feet, asbestos shingle roof (hot water heating reserved), combination lighting, hardwood floors, waterproofing. Architect has received bids.

School, Ashland Heights, Montgomery County, Pa., \$70,000. Architect, Ernest H. Cardley, 1713 Sansom street, Philadelphia. Owner, Lower Merion School Board, S. E. Downs, superintendent of schools, Ardmore, Pa. Brick, stone and hollow tile, 1 story and basement, 179x188 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, metal lath, roof ventilators, metal weather strips, waterproofing, dampproofing, wire work, ornamental iron work. Revised plans in progress.

Schools (2) (interior completion), Trooper and oByer, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School Board of Lower Providence Township, Pa. Interior completion of present buildings (heating and electric work separate bids), pine floors, plastering, metal lath, painting, mill work, plumbing. Architects have received bids.

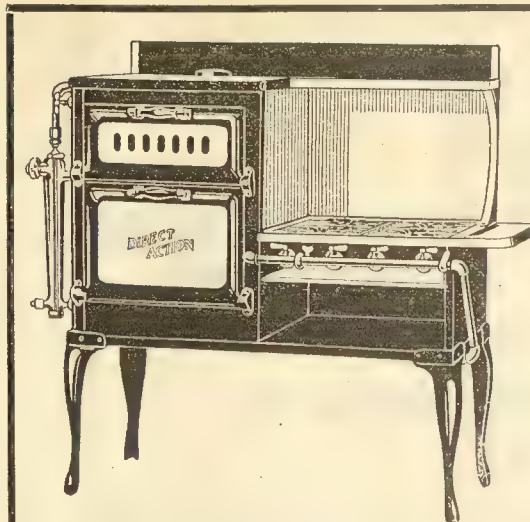
Garage, Mill Creek Road, Ardmore, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owner, J. Howard Pew, Finance Building, Philadelphia. Brick and frame, 1½ stories, 32x23 feet, shingle roof, cement and pine floors (plumbing, heating, electric work and gasoline storage system reserved). Architect has received bids.

Residence (alt.) and Garage, North Wales, Pa. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, A. R. Hall, North Wales, Pa. Consists of interior and exterior alterations to residence, new bay windows, slate roof; garage, brick, 2 stories, 26x25 feet, slate roof, cement floor (heating, plumbing and electric work reserved). Plans about completed. Owner will take sub-bids in about one month.

School (add.), Sharon Hill, Delaware County, Pa. Architect, Wm. G. Douglass, Jr., 521 Ludlow street. Owners, Board of Education, Wm. McNair, secretary, Sharon Hill, Pa. Stone and brick, 2 stories, 27x78 feet (heating, plumbing, lighting and ventilating separate bids), slate roof, concrete and maple floors, wire work, metal lath, safety treads, roof ventilators, metal window guards. Owners taking bids, due July 25. A. L. Carhart, Hale Building; Standard Const. Co., 1713 Sansom street; Evans Const. Co., 9 South Eighteenth street, and Mitchell Bros., 2125 Race street, Philadelphia, are figuring.

Bridge No. 29, Etnaus, near Allentown, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete, stone, steel and timber, 100 feet long, waterproofing. Owners taking bids, due July 24. A. L. Carhart, Hale Building, Philadelphia, is figuring.

Warehouse, Sunbury, Pa. Architects, Stearns, Woodnutt & Schmoll, Stephen Girard Building, Philadelphia. Owners, H. & S. Weis,



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Sunbury, Pa. Brick (slow burning), 4 stories, 50x125 feet, slag roof, steam heating, electric

lighting, maple floors, metal lath, fire doors, elevators. Owners have received bids.

PENNSYLVANIA

Contracts Awarded

Freight Station and Office Buildings, Steelton, Pa., \$30,000. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, concrete and steel, 1 and 2 stories, 275x31 feet and 54x30 feet, tin and slag roof, steam heat, electric light, concrete and spruce floors, safety treads, fire doors, roof ventilators, ornamental iron work, wire work. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

Residence (alt. and add.) and Garage, Jenkintown, Pa., \$6,000. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, R. S. Bulger, Jenkintown, Pa. Frame and plaster, 1 story, 23x19 feet, shingle roof, oak and cement floors (plumbing, heating, lighting, tile and marble work reserved). Contract awarded to W. John Stevens, Inc., Wyncote, Pa.

Farm House (alt. and add.), Paoli Road, near West Chester, Pa., \$5,000. Architect, Edw. S. Paxson, 729 Walnut street, Philadelphia. Owner, C. B. Grau, Haddon Heights, N. J. Brick and stucco, 2½ stories, sleeping porch and bath rooms (2), additions, mill work, slate roof, hot water heat, general alterations. Contract awarded to Harry W. Farra, West Chester, Pa.

Abattoir, Second and Pine streets, Reading, Pa. Architect, C. J. Young, Reading, Pa. Owners, Reading Abattoir Co., Inc., Reading, Pa. Concrete, 1 story and basement, 60x80 feet, Barrett roof, concrete floors (heating and lighting extensions), waterproofing. Contract awarded to Beard Const. Co., Reading, Pa.

Residence, Pine Grove, Pa. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owner, H. O. Gensemer, Pine Grove, Pa. Frame and stucco, 2½ stories, 32x90 feet, tile roof, hot water heating, electric lighting, tile work, hardwood floors. Contract awarded to O. J. Aregood, Pottsville, Pa.

Office, Lebanon, Pa. Architect, A. A. Ritcher, Reading, Pa. Owner, Luria Bros. & Co., Lebanon, Pa. Hollow tile and stucco, 2 stories, 27x34 feet, asbestos shingle roof, vapor heating, electric lighting, composition floors. Con-

tract awarded to George Speicher, Lebanon, Pa.

Bungalow, Ridley Park, Pa., \$7,000. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, T. P. Ward, 226 Henderson avenue, Ridley Park, Pa. Stone and brick, 2 stories, 65x32 feet, slate and slag roof, oak floors, hot water heating, electric lighting, tile and marble work, metal lath, wire work. Contract awarded to J. Howard Roberts, Lansdowne, Pa.

Young Men's Club (alt.), 414-16 Garden street, Allentown, Pa. Architect, L. S. Jacoby, Allentown, Pa. Owners, St. Aloysius Society, Allentown, Pa. Consists of alterations, 40x110 feet, steam heating, concrete floors. Contract awarded to L. M. Kratz & Son, Allentown, Pa.

Residence, Stable and Garage and Tool Shed, Merion, Pa., \$50,000. Architects, Seeburger & Rabenold, Pennsylvania Building. Owner, Percy L. Neel, Sixteenth and Master streets. Stone and plaster, 3 stories, 102x59 feet; 1½ stories, 16x20 feet; 1½ stories, 29x22 feet, and 1½ stories, 16x16 stories, slate roofs, electric lighting, tile work, cement and pine floors, hollow tile, metal lath, gasoline storage system, ornamental iron work (heating, plumbing and weather strips reserved). Contract awarded to Milton W. Young, Overbrook, Pa.

Residence and Garage, Drexel Hill, Pa., \$10,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Mrs. Edward G. Stocker, care of architect. Stone and stucco, 3 and 1 stories, shingle or slate roof, vapor heating, electric lighting, tile work, hardwood floors. Contract awarded to W. D. Prouse, Drexel Hill, Pa.

Residence, Perkassie Township, Bucks County, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Frank Cressman, care of Allen R. Cressman Sons, Sellersville, Pa. Hollow tile or brick and plaster, 2 stories, 30x50 feet, and two wings, 1x20 feet, tile roof, electric lighting, hardwood floors, dampproofing. Contract awarded to Ely M. Utz, Telford, Pa.

Y. M. C. A., Pottstown, Pa., \$12,000. Architects, Lachman & Murphy, Drexel Building,

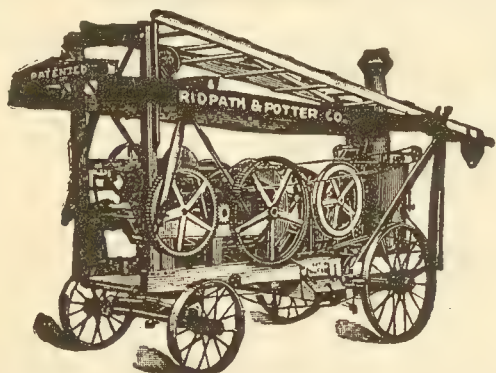
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Philadelphia. Owners, Y. M. A., Pottstown, Pa. Brick addition, 2 stories, terra cotta trim, heating and lighting extension, tile and marble work. Contract awarded to F. H. Kaiser & Co., Pottstown, Pa.

Residence, Elkins Park, Pa. Architect, D. Knickerbacker Boyd, Otis Building, Philadel-

phia. Owner, C. J. Milne, Jr., 2029 Walnut street, Philadelphia. Hollow tile and plaster, 2½ stories, 30x47 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to W. John Stevens, Inc., Wynecote, Pa.

NEW JERSEY Construction News

School (alt.), Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board of Atlantic City, H. H. Young, secretary, Atlantic City, N. J. Consists of tile and marble work, fire escapes. Owner ready for bids.

Garage, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner's name withheld. Brick, 1 story, 175x40 feet, slag roof, hot water heating, electric lighting, tile work, hollow metal skylights, concrete floors, gasoline storage system. Revised plans in progress.

Apartment House, Euclid avenue and Boardwalk, Atlantic City, N. J. Architect, William Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, Isaac Aaron, Beverly Court Apartments, Atlantic City, N. J. Brick, 3 stories and basement, 120x84 feet, slag roof, hardwood floors, electric lighting. Plans about completed.

Receiving Vault, Merchantville, N. J. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Arlington Cemetery, Merchantville, N. J. Stone and concrete, 1 story, 11x28 feet, tile roof, cement floors, metal lath, rolled steel sash, ornamental iron work. Plans completed. Owners will take bids.

Store House, Federal street, west of Seventeenth street, Camden, N. J. Architect, private plans. Owners, Irwin & Leighton, 126

North Twelfth street, Philadelphia. FrFame, concrete foundations, 1 and 2 stories, 300x25 feet, slag roof, electric lighting. Owners ready for sub-bids in a week.

School, Phillipsburg, N. J., \$30,000. Architect, H. J. Wenzelberger, Easton, Pa. Owners, School Board of Phillipsburg, A. R. Case, secretary of Board, Phillipsburg, N. J. Brick, 2 stories, slag roof, maple floors (steam heating, electric lighting, ventilating and plumbing reserved). Owners taking bids, due August 1st. A. A. Bechtel, Easton, Pa.; Butz & Clader, Allentown, Pa.; Richard Gavin, and Benj. Ryman, both of Phillipsburg, N. J., and Geo. W. Shaner & Sons, Palmyra, N. J., are figuring.

School, Oxford, N. J., \$17,000. Architect, H. J. Wenzelberger, Easton, Pa. Owners, School Board of Oxford, Oxford, N. J. Brick, 2 stories, 40x70 feet, slate roof (steam heating, plumbing and electric work reserved), maple floors. Plans completed. Owners ready for bids next week.

Sewage Disposal Plant (reconstruction), Haddonfield, N. J., \$10,000. Architects, Remington & Vosbury, Sixth and Market streets, Camden, N. J. Owners, Borough of Haddonfield, Department of Public Works, Haddonfield, N. J. Plans in progress.

Garage, Haddonfield, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, W. H. Lumus, Haddonfield, N. J.

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Factory, Camden, N. J. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Wood Manufacturing Co., Seventh and Erie avenue, Camden, N. J. Brick, terra cotta (slow burning), 1 story, 72x262 feet, slag roof (plumbing, heating and electric work reserved), ornamental iron work. Architects taking bids, due July 23rd. H. E. Grau Co., 1707 Sansom street; Frank G. Stewart, 1619 Sansom street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; E. R. Hall, 34 South Seventeenth street, and Barclay White Co., 1713 Sansom street, are figuring.

Library, Haddonfield, N. J. Architect, Wm. C. Prichett, 416 Walnut street, Philadelphia. Owners, Haddonfield Library of Historical Society, care of Wm. G. Moore, chairman Building Committee, Drexel Building, Philadelphia. Brick and plaster, 1 story and basement, 63x20 feet, wing 25x24 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, hollow metal skylights, pine and oak floors, metal lath, waterproofing. Architect has received bids.

Factory Building, Hamilton Township, Trenton, N. J., \$70,000. Architect, J. Osborne Hunt, 114 North Montgomery street, Trenton, N. J. Owners, Delion Tire and Rubber Co., East State street, Trenton, N. J. Brick, concrete and steel, 2 stories, 65x250 feet, steam heat, electric light, rolled steel sash, fire doors, fire escapes, iron stairs, slag roof, concrete floors, hollow tile, metal lath, elevators, safety treads, roof ventilators. Owners have received bids.

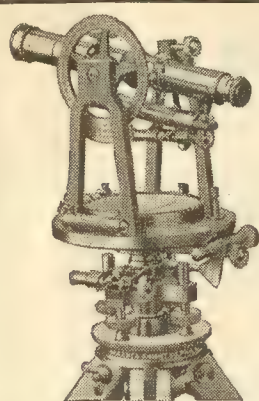
Fire House, Trenton, N. J. Architect, W. P. Endebrook. American Mechanics' Building, Trenton, N. J. Owners, City of Trenton, Department of Public Safety, Trenton, N. J. Brick, 2 stories, 46x65 feet, hot water heat, electric light, slag roof, yellow pine floors.

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Heating and plumbing reserved. Owners have received bids.

Office Building, Hamilton Township, Trenton, N. J., \$25,000. Architect, J. Osborne Hunt, 114 North Montgomery street, Trenton, N. J. Owners, Delion Tire and Rubber Co., East State street, Trenton, N. J. Brick, 2 stories, 50x70 feet, steam heat, electric light, rolled steel sash, fire doors, fire escapes, iron stairs, slag roof, concrete floors, hollow tile, metal lath, safety treads, roof ventilators, metal ceilings. Owners have received bids.

School, Hamilton Township, Trenton, N. J., \$40,000. Architects, Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board of Hamilton Township, Trenton, N. J. Brick, 2 stories, 8 rooms, electric light, Barrett roof, maple and tile floors, tile work, rolled steel sash, iron stairs, metal ceilings. Heating, plumbing and electric work reserved. Owners taking bids, due July 23. The following



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are figuring: Andrew Trier, Joseph E. Smith, Samuel Wiley, Harry Hilton, Charles Randall, Burton & Burton, Charles Smith, Wm. Ivins, Fred Parker, S. W. Mather & Sons, I. Harper Claton, and Thomas M. Day, all of Trenton, N. J.

story, 100x100 feet, slag roof, hot water heating, electric lighting, concrete floors. Contract awarded to Charles Bryce, Wilmington, Del.

NEW JERSEY Contracts Awarded

Bridge (O. H.), Greenwood avenue, over New York Branch, Hopewell, N. J. Engineer, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Twelfth and Market streets. Steel and concrete, asphalt floor, sidewalk 7 feet wide, both sides. Contract awarded to American Bridge Co., Widener Building, Philadelphia.

Magazine Buildings (8), Lake Denmark, Dover, N. J. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, 1 story, 126x40 feet, asbestos roof (lighting and heating reserved), concrete and pine floors, rolled steel sash, fire doors, roof ventilators. Owners have received bids.

Work Shop (airplane factory), near Inlet, Atlantic City, N. J. Architect, Wm. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Brick, 1 story, 100x200 feet, composition roof, cement floors, electric lighting. Contract awarded to P. G. Hannum, Atlantic City, N. J.

Bank, Trenton, N. J. Architects, Dennison & Hiron, 475 Fifth avenue, New York City, and Kleeman & Fowler, Trenton, N. J., associated. Owners, Trenton Bank, Trenton, N. J. Marble, 1 story, 65x100 feet, electric light, tile and slag roof, concrete floors, tile and marble work, metal skylights, bank fixtures, waterproofing. Contract awarded to S. W. Mather & Sons, Greenwood and Canal streets, Trenton, N. J.

DELAWARE Construction News

Church, Franklin and Elm streets, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Baptist City Mission Society, Thomas Taylor, chairman Building Committee, Wilmington, Del. Stucco, 1 story and basement, 52x36 feet, slate roof, hot air heat, electric lighting, pine floors, waterproofing. Plans in progress.

Residence, Seventeenth and Riverview avenue, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner's name withheld. Brick, 3 stories, slate roof, vapor heating, combination light, tile work, hardwood floors. Plans in progress.

Residence (alt.), Willard and Greenhill sts., Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner's name withheld. Consists of general interior alterations. Plans in progress.

Garage, Wilmington, Del., \$20,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John Monaghan, Fourth and Madison streets, Wilmington, Del. Brick, 2 stories and basement, 60x80 feet, slag roof,

steam heating, electric lighting, rolled steel sash, iron stairs, concrete and wood floors, hollow tile, metal lath, elevators, roof ventilators, waterproofing, gasoline storage. Owners taking sub-bids.

Dormitory Building and Dining Hall, Newark, Del. Architects, Day & Klauder, 823 Chestnut street, Philadelphia. Owners, Delaware College, Newark, Del. Brick and marble, fireproof construction, 3 and 4 stories, 50x50 feet and 50x30 feet, slate roof, steam heating, electric lighting, tile and marble work, metal lath, dumbwaiter. Architects taking bids on brick, reinforced concrete work and mill work, due July 19th. A. R. Raff Const. Co., 1635 Thompson street; W. D. Haddock & Co., Wilmington, Del., and Benj. F. Bennett Building Co., Baltimore, Md., additional bidders. Architects also taking sub-bids, due July 19th.

Garage, Hancock street, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, Frank S. Dure, 1509 Franklin street, Wilmington, Del. Brick, 1

Church, Cocksackie, N. Y. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owners, First Methodist Episcopal Church, Cocksackie, N. Y. Stone, 1 story, 40x105 feet, slag roof. Plans in progress.

Machine Shop and Foundry Building, Toledo, O. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Toledo Machine Tool Co., Toledo, O. Steel and brick, 1 story, 158x375 feet, tile roof, steam heating, electric lighting, rolled steel sash. Engineers taking sub-bids.

Residence, Greensboro, N. C. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owner, A. W. McAlister, Greensboro, N. C. Brick and stucco, 2½ stories, 50x128 feet, slate roof. Plans in progress. Too early for details.

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Storage, American and Huntingdon streets, \$6,000. Trussed Concrete Steel Co. (O), Commonwealth Building. H. C. Rea Co. (C), 1314 Arch street. Brick, 1 story, 94x56 feet, composition roof.

Greenhouse, 5458 Ridge avenue, \$350. G. E. Sautman (O and), on premises. Concrete and glass, 1 story, 15x50 feet.

Repair Shop, Twenty-first and Somerset streets, \$3,000. W. E. Carter (O and C), 1921 West Somerset street. Brick and concrete blocks, 1 story, 34x70 feet. Metal skylights, slag roof.

House and Garage, Marshall and Fitzwater streets, \$18,000. Carmilla Villotti (O), 623 Fitzwater street. Tony Bressi (C), 1132 Lime street. Stone and brick, 3 stories, 20x32 feet, 20x60 feet; garage, 2 stories, 22x40 feet, felt and slag roofing, hot water heating.

Dwelling and Garage, Fulmer and Bustleton Pike, \$5,900. John Stevens (O), Bustleton, Philadelphia. Joseph Ashby (C), Fox Chase, Philadelphia. Frame, 3 stories, 36x30 feet, slate roof; garage, 1 story, 18x20 feet.

Machine Shop, 1320-22-24 Mt. Vernon st., \$16,000. H. C. Gray Co. (O), on premises. Alex. Chambley (C), 243 South Tenth street. Brick, 1 story, 41x96 feet, slag roof.

Dwellings (2), Severington and Smick sts., \$4,400. Martin H. Keller (O), 326 Dupont st. William E. Keller (C), 480 Harmon Road. Brick, 2 stories, 14x30 feet, slag roof.

Garage, 1720 South Third street, \$2,000. Dr. Max Bredt (O), 1626 South Fourth street. FFrank Donato (C), 1423 South Eighth street. Brick, 1 story, 16x118 feet, slag roof.

Dwellings (2), 4206 Houghton street, \$6,500.00. H. C. Missimer (C), 8115 Ridge avenue. James W. Rothwell (O), 4136 Terrace street. Brick, 2 stories, 16x34 feet, shingle roof, hot water heating.

Dwellings (34), 2703 to 2735 South Sixteenth street, 1608 to 1640 Oregon avenue, \$62,000. Charles M. Weild (O and C), 2316 South Broad street. Brick, 2 stories, 15x24 feet, slag roof, hot air heating.

Dwelling, Forrest avenue and Upsal street, \$3,100. George Ludwik (O), Stenton avenue. W. G. Kremson (C), Forrest avenue and Johnson street. Brick, 2 stories, 17x40 feet, slag roof.

Factory, Roberts avenue and Stokley avenue, \$45,000. American Insulation Co. (O), on premises. Wm. Steele & Sons Co. (C), 34 South Fifteenth street. Brick, 2 stories, 83x141 feet, slag roof.

Garage, Sixteenth and Ontario streets, \$1,000. J. D. Barclay (O), 1515 Sansom street. J. Bender (C), 1817 South Fourth street. Brick, 1 story, 18x25 feet, slag roof.

Garage, 5930 Spruce street, \$500. Charles Olson (O), on premises. J. P. Fallon (C), 449 South Sixtieth street. Brick, 1 story, 15x19 feet, slag roof.

Factory, Twenty-first and Clearfield sts., \$60,000. The De Long Hook and Eye Co. (O), Broad and Wallace streets. Wm. Steel & Sons Co. (C), 32 South Fifteenth street. Reinforced concrete, 4 stories, 88x225 feet, slag roof.

Dwellings (6), Wakeling and Rising Sun avenue, \$23,500. George T. Sale (O), 1218 Pennsylvania Building. H. A. L. Smink (C), 5320 North Twelfth street. Stone, 2 stories, 25x29 feet, shingle and slate roof, hot air heating.

Garage, 1402 Ellsworth street, \$775. Peter Ciancula (O), 734 Fulton street. John Palain (C), 710 Fitzwater street. Brick, 1 story, 15x20 feet, slag roof.

Coal Trestle, Hermit street and P. R. R., \$3,500. R. Hey & Son (O), Main street. Brown Const. Co. (C), 4600 Main street. Concrete and steel.

Alterations and Additions

Warehouse, 827 North American street, \$500. H. F. Ortlieb (O), 845 North Third street. Wm. F. Koelle Co. (C), "H" and Oxford street. Repair fire damage.

Dwelling, Sixteenth and Ontario streets,

\$2,500. J. D. Barclay (O), 1412 West Sixty-eighth avenue. J. Bender (C), 1817 South Fourth street. Fire escape and alterations.

Garage, 2840 "D" street, \$3,000. D. McKibbin (O and C), 2900 Frankford avenue.

Brick, 1 story, 43x78 feet.

Theatre, 215 North Eighth street, \$2,500. Central Market Street Co. (O), Globe Theatre Building. P. M. Sax (C), Franklin Bank Building. General alterations to front.

Factory, Richmond and Kennedy streets, \$2,000. Charles Lenney Co. (O). National Fireproof Co. (C), Land Title Building. New hollow tile wall.

Building used for business purposes, 1118-20 Chestnut street, \$13,000. Estate of William Thompson (O), Mears & Brown, 202 South Fifteenth street. Wm. R. Dougherty (C), 1608-10 Sansom street. Fire repairs.

Storage, Cambria and Ormer streets, \$1,100. German-American (O), Luzerne and Lawrence streets. J. H. Donnelly (C), 135 North Twenty-second street. Brick vault, 1 story, 12x23 feet.

Dwelling, Fifty-third and Walton avenue, \$450. John F. Bates (O), on premises. Frank R. Shriver (C), 5106 Catharine street. Brick, 1 story, 10x16 feet.

Shop, Tacony and Lewis streets, \$1,875. J. Illingworth Steel Co. (O), on premises. F. T. Mercer Co. (C), 1706 DeLancey street. Frame, 1 story, 32x56 feet, corrugated iron roof.

Garage, 1448 South Thirteenth street, \$400. V. Stefano (O), on premises. D. D. Espinosa (C), 1442 South Thirteenth street. Brick, 1 story, 12x15 feet.

Factory, 836 Swanson street, \$2,000. Hoge Waite Works (O), on premises. Barclay White Co. (C), 1713 Sansom street. Sprinkle tank.

Store and Dwelling, 1417 Ridge avenue, \$400. S. Hackenburg (O), on premises. Howard Corvin (C), 1429 Brown street. Hot water heating.

School, Forty-eighth and Wyalusing avenue, \$6,500. Rev. Prendergast (O), Eighteenth and Race streets. James Doyle Sons (C), 878 North Forty-sixth street. Brick, 1 story, 41x20 feet, slate roof; brick, 1 story, 23x30 feet slate roof, toilets.

Store, 4612 Frankford avenue, \$600. S. B. Lyon (O), on premises. J. Bushnell & Bro. (C), 2146 East Norris street. Alterations.

Office and Storeroom, 516 North Fourth st., \$10,000. United Hebrew Charities (O), on premises. Lam Building Co. (C), 1001 Wood street. Brick, 2 stories, 16x62 feet; brick, 1 story, 15x16 feet, and alterations.

Frame Building, Eighteenth street, rear of Cambria, \$450. Line Air Products (O and C), on premises. Iron on iron, 1 story, 18x18 feet, metal roof.

Store and Dwelling, 1410-12 Point Breeze avenue, \$2,600. Mrs. N. Tollin (O), on premises. J. Seidman (C), 1324 South Fourth st. New flush bulk, brick, 1 story, 20x13 feet, slag roof.

Garage, 6340 Media street, \$700. F. J. Lambert (O), 637 North Sixty-fourth street. Wm. F. Lambert (C), 6228 Haverford avenue. Brick, 1 story, 20x24 feet, slag roof.

Store, Eighth and Christian streets, \$2,500. Pasquale La Bocetta (O), 824 South Eighth street. Del Cechio Realty Co. (C), 1505 South Broad street. New bulk, brick, 2 stories, 4½x24 feet, 2 stories, 9x24 feet.

Dwelling, Fifty-second street and City Line, \$2,500. B. Urban (O), 324 North Third street. George Kessler Co. (C), Drexel Building. Stone, 2 stories, 11x25 feet, slag roof.

Store and Dwelling, 5219 North Fifth street, \$800. Adolph Rouff (O), on premises. N. Gravo (C), 2828 VanPelt street. Brick, 1 story, 12x27 feet, slag roof.

Dwelling, 603 Fitzwater street, \$1,500. Joseph Esposito (O), 729 South Marshall street.

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

Frank R. Bilotta (C), Seventh and Christian streets. Alterations.

Saloon, Stenton avenue and Narragansett street, \$500. Peter Leibert (O), 552 Leverington avenue. E. L. Cuthbertson (C), 334 Roxborough avenue. New flush bulk.

Dwelling, Cresson and Pensdale streets, \$700. Mary Demalto (O), Monaster avenue and Dexter street. John Hurley & Co. (C), 4416 Cresson street. New partitions, 2 skylights and new windows.

Theatre, Front and Girard avenue, \$26,000. Jumbo Amusement Co. (O), on premises. Ketcham & McQuade (C), 102, Brown street. Alterations to front.

Garage, 715 West Dauphin street, \$475. P. Cran (O), 4051 North Broad street. Charles Poppe (C), 2327 North Eleventh street. Brick, 1 story, 16x12 feet.

Theatre, Eighth and Race streets, \$650. Central Market Street Co. (O), Globe Building. A. MacBride & Co. (C), 1341 Girard avenue. Steam heating boiler.

Store and Dwelling, 533 South Eleventh street, \$600. S. Rubin (O), on premises. A. Rubin (C), 1127 Thompson street. Brick addition, 1 story, 4x22 feet, new sklight.

Saloon, Ninth and South streets, \$5,000. M. W. Newton (O), Green's Hotel, Eighth and Chestnut streets. D. P. Cloud (C), 1407 S. Fifty-eighth street. Alterations.

Moving Pictures, 219 North Eighth street, \$590. Central Market Co. (O and C), Globe Theatre Building. Alterations.

Dwelling, 2261 North Twenty-second street, \$420. Camac Building Association (O), 1453 North Sixtieth street. B. F. Virden (C), 2927 Fletcher street. Rebuild front wall.

Residence, Wayne avenue and Johnson st., \$900. J. D. McIlheny (O), on premises. H. H. Burrell (C), 206 South Quince street. Reinforced concrete with beams.

Wagon Shed, 3006-8 Chestnut street, \$400. J. G. Feely (O), 3802 Powelton avenue. James Feely (C), 3008 Chestnut street. Yellow pine posts, concrete foundations and sheathing boards.

Store and Dwelling, 4801 Baltimore avenue, \$800. Harry Limburg (O), on premises. W. J. Mitchell (C), 1717 West Park avenue. Brick, 1 story, 11x15 feet, flush bulk.

Tank, American and Willow streets, \$1,000. C. J. Matthews (O), on premises. Robert E. Lamb Co. (C), 1314 Arch street. Steel tank support.

Wash and Boiler Room, Ninth and Sedgley streets, \$5,000. Surpass Leather Co. (O), on premises. George Kessler Cont. Co. (C), 931 Drexel Building. Brick, 1 story, 39x44 feet.

Yard Wall, Seventeenth and Cherry streets, \$4,000. Friends' Select School (O), Sixteenth and Cherry streets. R. C. Ballinger (C), 213 North Thirtieth street. Brick and iron.

Warehouse, 26 North Fifth street, \$2,000. J. M. Rowland (O), 505 Commerce street. W. Easterbrook (C), 146 North Fourth street. Brick, 4 stories, rear addition, 15x15 feet.

Stable, 150 West Thompson street, \$600. T. A. Harris Co. (O), on premises. S. J. Rea & Son (C), 1608 Fairmount avenue. New roof.

WATCH THE "ADS."

June brings a wealth of summer flowers, some days of sun and some of showers; the Builder hustles through the day, to make his growing business pay, and you can hear the hammers ring, the busy saw and planer sing; while here and there the houses rise with rooftrees pointed toward the skies.

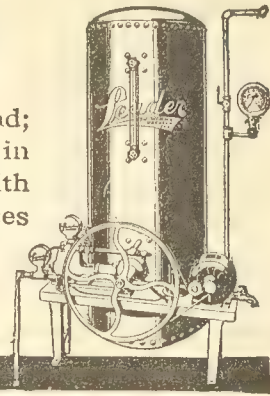


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A little later in the year, before the frosts of fall appear, the finished roofs will greet the eye, and storm and sleet and snow defy. Not every roof will stand the test, not every roof will prove the best, for some may stand the summer sun, but fail when winter has begun. Some, too, alas! will show decay, before a year has passed away.

It's quite a problem, to be sure, to know good roofing from the poor; but there's one safe and certain way, that you can put to test to-day. Before you lay this Builder Book upon the desk top, take a look where all the "ads" are printed to be scanned by Builders, such as you.

Let me suggest you turn to her, and say, "My dear stenographer," (the "dear," of course, you may omit, unless you think she'll stand for it), but say, "Just take this letter to those roofing people P. D. Q."

"Dear Sirs, your catalog will be appreciated much by me; please send me prices and the proof that you can make a perfect roof. I only want the best, you know; so show me, for I come from Mo."

If you will try my free advice, and use the roofing once or twice you order on my "Show me" plan, you'll be a sure "ad" booster man.

—Frank Adams Mitchell in "The National Builder."

CO-OPERATION WITH ARCHITECTS BENEFICIAL.

Much Unnecessary Labor Eliminated, Vexatious Problems Solved and Satisfactory Results Obtained if Principals Work in Harmony.

An architect may be trained or untrained; may know or may not know. A material manufacturer or dealer may truthfully present the qualities of his wares or he can surround them with an atmosphere of mystery. A contractor may build with infinite care or shiftless neglect. The architect, material man and contractor may work together to the best interest of the owner or they may quibble and quarrel and get nowhere.

The architect must be qualified to diagnose his client's needs. His judgment must be predicated on established facts. He must know the contract law, local trade terms and customs. In the taking of competitive bids, he must use discretion in the choice of responsible bidders. He must take pains to see that all bidders are treated fairly and justly. He must recognize that his client is under obligation alike to all worthy contractors; that having received carefully prepared, legitimate bids, that the lowest capable bidder has justly earned the award of the contract. He must realize that a mistake on the part of a bidder is an injustice to the contractors who have submitted bids in good

faith and should bar that bid from further consideration and justly entitle the bid of the next lowest contractor to first consideration. He should realize that all bidders should be required to stand by their bids or withdraw from consideration and should not tolerate changes in bids.

Having determined that the choice of materials is properly the function of the architect, we are now prepared to inquire how materials may be best presented to architects for their consideration. The successful entering wedge would seem to be descriptive advertising in architectural publications, followed by short personal letters drawing attention to the nature and advisability of a product and suggesting the possibility of an early interview with the representative. Following this correspondence, a technically expert missionary should call upon the architect. The qualifications of this representative are of the utmost importance. There is nothing more annoying to an architect than to waste his time in an interview with a representative of a material manufacturer who lacks both information and tact. A special

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representative of a material manufacturer should carry with him a very carefully prepared catalog or illustrated page substantially gotten up on pages of standard size.

This should give complete detailed information and illustrations of the product which he is presenting. This material should be especially trustworthy and exactly to the point. There must be no doubt as to the nature and proper application of the product.

During this interview the material missionary should tell the architect where he may see the full sized working models of his product. There is no method so convincing to clinch an argument as to see the actual material in ample scale, and next to seeing the material actually in place, convenient exhibits of full size models are most effective. If the architect specifies the material, then he is in fact, if not in name, the purchasing agent. The wise material man will recognize his status as such and give him all of the data necessary for intelligent purchase. There can be no intelligence in purchase if there is not an accurate knowledge of actual price as well as comparative prices. The material man should remember that no architect of character will specify any material where he does not know the actual price which the reputable contractor will have to pay.

Why should not the material man be perfectly frank and give the architect the trade discounts at once, thus saving him the trouble of getting them in some other way. I have never been able to see the reason for the mystery with which so many material men surround their products—a mystery preserved both as to chemical composition and to price. To me it is an insult to the intelligence of the architect. Of course, the sensible architect knows that both the material man and contractor are making a profit. It is his duty, however, to see to it that this profit is no more, quality and efficiency considered, than is asked by responsible, legitimate competitors in fair competition on an equal article. Is there then a single worthy plea that can be entered against the spirit of frankest co-operation existing between the material man and the architect alike in reference to information as to cost, as to quality and as to manner of installation?

Relation of Contractor.

Now, that we understand the limitations and functions of both architect and material man, let us discuss the proper relation of the contractor to the remaining members of the triangle. Primarily, the contractor is one skilled in the cost and organization of construction. To command respect in his chosen calling he must know cost, he must be able to estimate with accuracy the amount of labor required in any trade. To execute any piece of work which is presented for his consideration he must at all times be an authority on building material and market conditions. He

must know where, when and how much material can be obtained; he must know the possibilities of the labor market; he must be able to secure the right sort of men at the right time to execute any work on which he has assumed contracts. To meet these conditions he must be able to look both into the past and the future; he must have an accurate system of cost accounting and an accurate index of men, giving full information as to their special qualifications and advisability. With this information before him, he can speak with comparative certainty as to probable cost and the time required for execution of the work.

Quantity Survey Desirable.

It is to be hoped that the time will soon come when the contractor will not be required to take off quantities from plans and specifications. The system in vogue at present which requires each contractor to make his own quantity survey is a duplication of the same service which is not only wasteful, but puts upon the contractor a duty for which he is not qualified by his training. This system has always been most productive of misunderstanding between owner, contractor and architect. All should co-operate to secure the early adoption of a system of independent quantity surveys, a system which would submit a duplicate and intelligently presented list of material to all contractors estimating on any given branch of work, making certain in this manner a uniform basis of estimating.

Another item which demands particularly close co-operation between the architect and contractor is the manner and method of inviting, preparing and handling of bids on proposed work. There is just as much reason for guaranteeing the secret system of bidding to the sub and original contractor and to the owner as there is for guaranteeing the secret ballot to the elector. There is the same argument against submitting more than one bid on the same subject matter as there is against "repeating" at the ballot box. These conditions apply with equal force to bids submitted by the major contractor to the owner through the architect, and to bids submitted by minor contractors and material men to the major contractors.

If each contractor who submits a bid on any item to any person would exercise the necessary care in the preparation of such bid to insure himself that this bid represents the definite minimum for which he would be willing to accept the work, then the old bluff, "I have a lower bid," would not appeal to him. The submitting of bids to contractors' associations in advance of submitting them to the parties for whom they are intended constitutes a dangerous practice which is ultimately certain to lead to scandal. The reputable contractor should refuse to submit bids through any other sort of architect. The real general contractor does not peddle bids.

Sub-contractors and material men's associations should advise their members not to submit bids to so-called contractors who are known to peddle bids. They should go further than this. They should clearly state in their code of ethics that they consider it dishonorable practice for any competing contractor to secure information as to the bids submitted by other contractors, either through the architect's office, general contractor's office or from each other.

Within a few days after the contract is signed, all persons having to do with the award of the contract should make an announcement of the amounts of the bids submitted in order to satisfy the competing contractors as to the fairness of the award. Frank methods of this sort will do much to sustain the confidence which is essential to co-operation between architect, material man and contractor. Once the contract has been assumed, the contractor should immediately make out a program of construction to insure the completion of his work, after making due allowance for unforeseen delays, at the time fixed by the contract. He should purchase his materials immediately, making contract for delivery according to his schedule.

The contractor's monthly requisitions for payment should be accompanied by an accurate statement of the entire amount of work essential for the completion of the work and the proportionate part of that work already completed. With such a statement before him, the architect may issue the proper certificates without undue delay. One of the chief causes of delay in the issuance of an architect's certificate is the vague and indefinite statements accompanying contractors' requisitions for payment. In a large majority of cases through carelessness rather than evil intent, the statements submitted are misleading and are so worded as to make them impractical both to use as a basis for checking up the work already executed, as well as the work still to be completed.

It should be borne in mind that the architect's interest is not so much in the work already completed as it is the probable cost of executing the remaining work under contract. The architect is charged with the duty of reserving sufficient funds at all times to complete the contract and to secure all guarantees. With reference to the relation between the contractor and material men, it should be borne in mind that no warrantee on the part of the material men can be enforced unless the contractor is careful to comply strictly with the instructions of the material man, as to the manner of use or installation of the material covered by the warrantee.

Having thus frankly discussed the controlling factors essential to co-operation between contractor, material man and architect, what is to hinder immediate procedure along these lines?—Emery S. Hall in "New York Real Estate Record."

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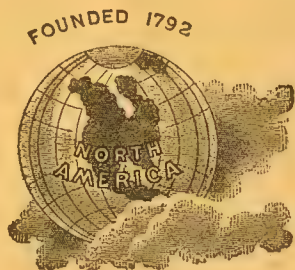
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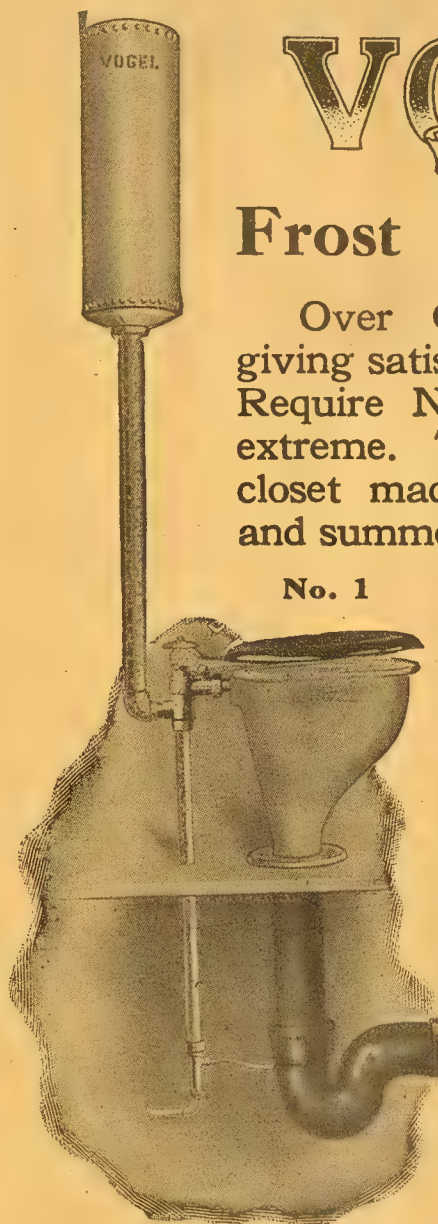
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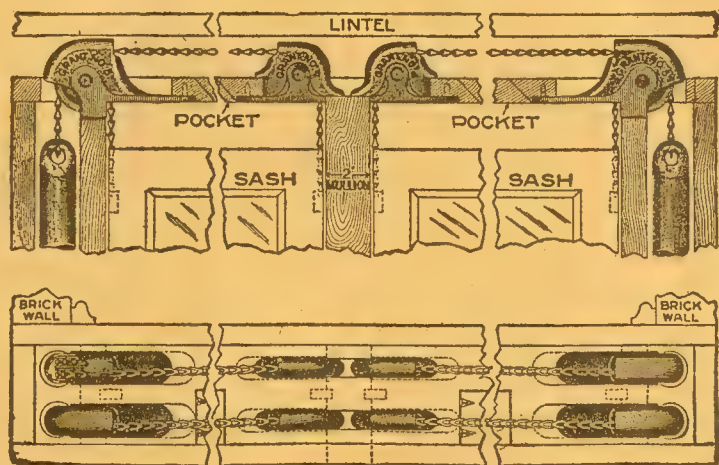
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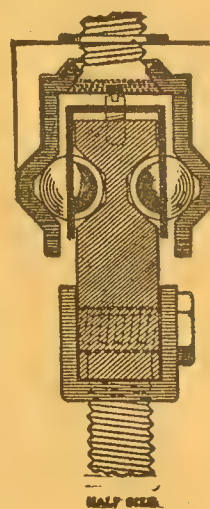
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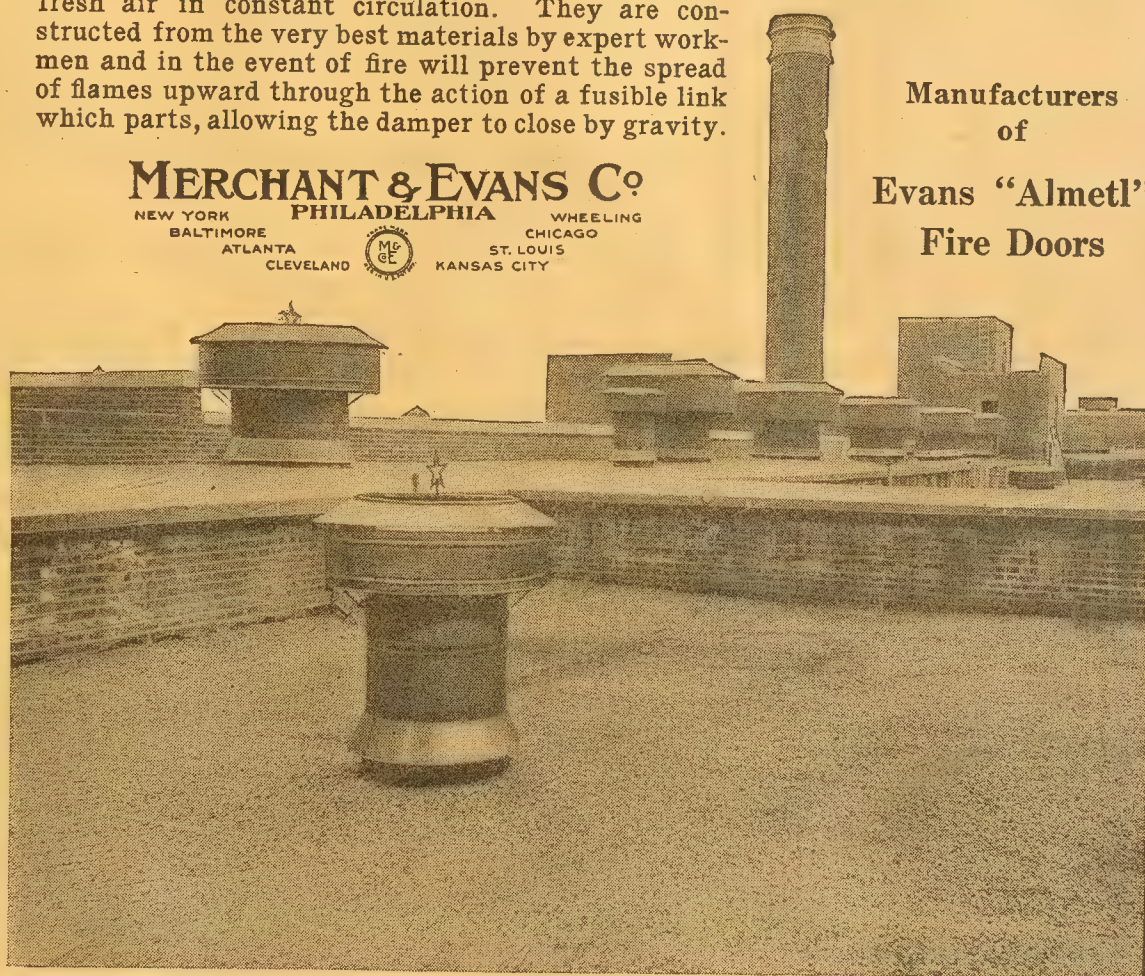
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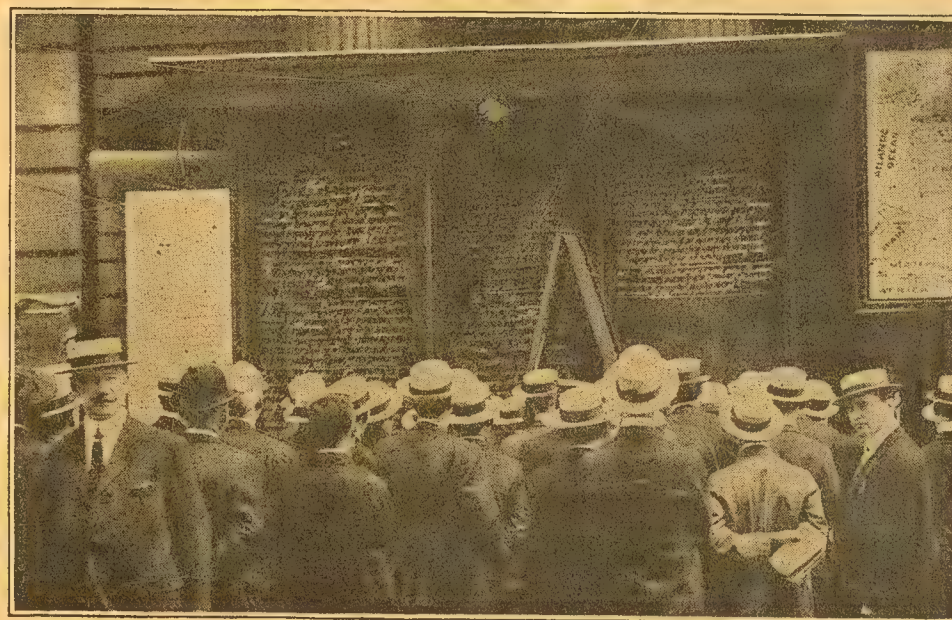


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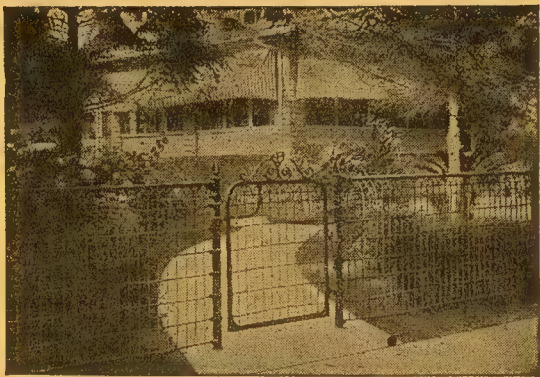
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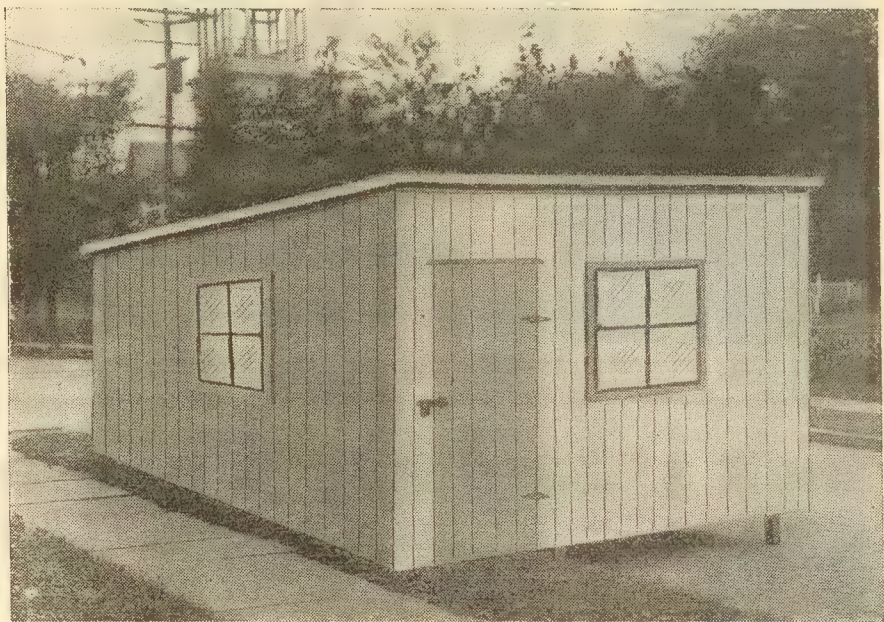
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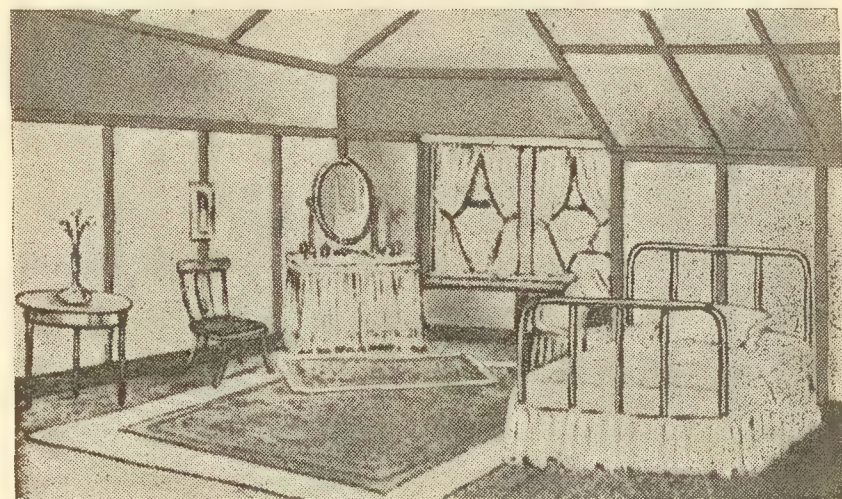
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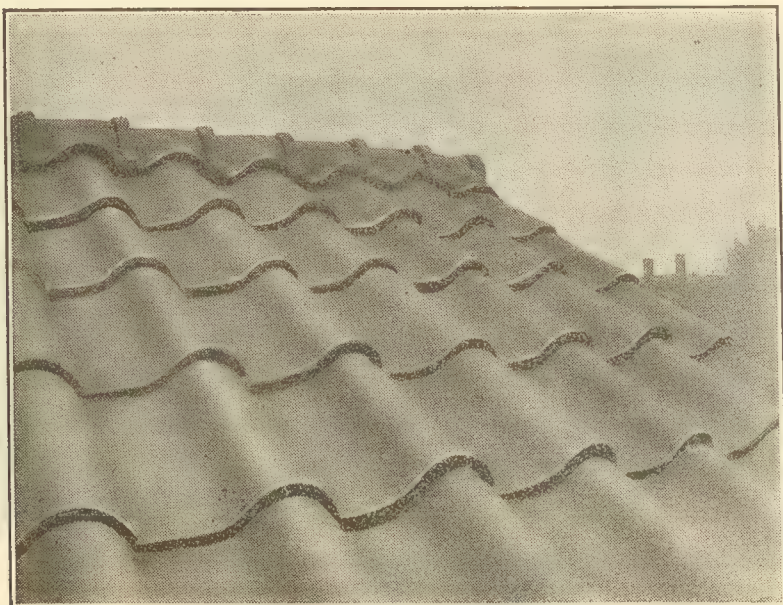
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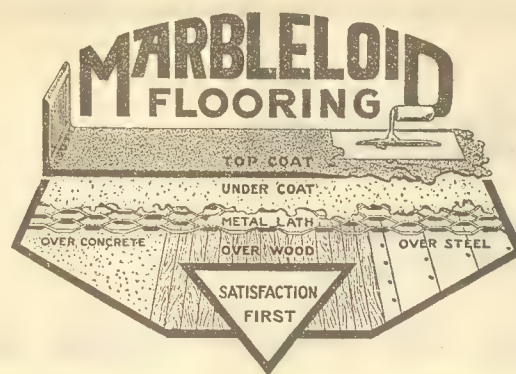
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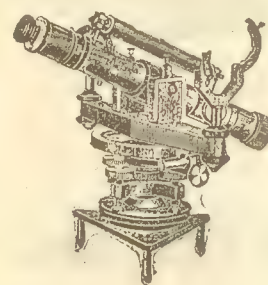
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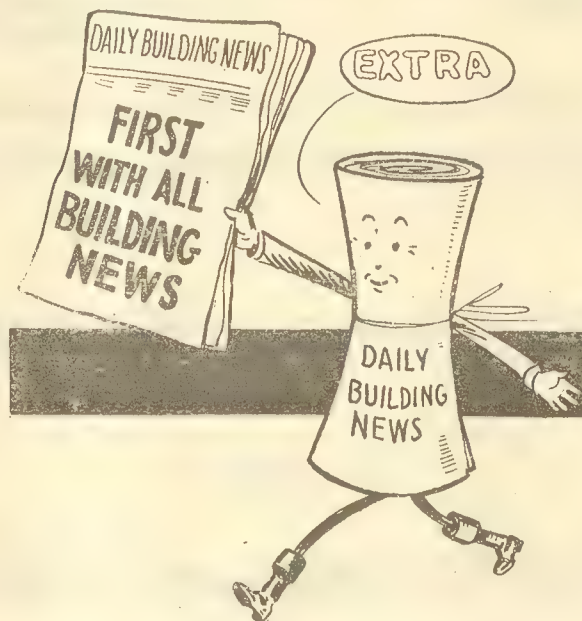


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 30

PHILADELPHIA
July 25, 1917

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As The Editor Sees It



THE profession of architecture is as old as civilization, in view of which it is a bit disconcerting to be told that, in England, the first Architectural Club appeared about 1791 and the first architectural magazine in 1833. The current number of the *Journal of the American Institute* presents an article by Sidney Webb, Professor of Public Administration in the University of London, on the early records of architecture as a profession. The first known use of the term "architect," in English, according to Mr. Webb, was in 1563, when John Shute, on the title-page of what was, perhaps, the first book in English dealing with an architectural subject, styled himself "painter and architect." The title of this volume was "The First and Chief Grounds of Architecture, Used in All the Ancient and Famous Monuments, with a Further and More Ample Discourse Upon the Same than Hitherto Hath been Set Out by Any Other."

Inigo Jones (1573-1671) is said to have been the first definitely professional architect in England. For a couple of centuries after Jones the work of the architect continued to be but faintly differentiated from that of the master mason and building contractor. This applying to England, of course. In Italy architecture had long been intimately connected with the arts of painting and sculpture. Sir Christopher Wren, as late as the close of the seventeenth cen-

ture, combined with his work as an architect duties that are now allotted to the surveyor, builder and civil engineer. The architect seems not to have made any great headway professionally until the superseding by the contracting builder of the old order of master craftsman.

* * *

THE earliest of these contracting builders were architects and undertook both the planning and erecting of such jobs as enlisted their attention. Robert Smithson, one of these early worthies, described himself as "Undertaker and Overlooker." Robert Timmons, who designed Blickling Hall, Norfolk, is termed "Architect and Builder." Sir Thomas Chambers and Robert Adam contracted to supply not alone plans and buildings, but even to design and make the furniture and interior fittings.

George Cook, to whom we owe the foundation (in 1786) of the first professional journal, *The Builder's Magazine*, was one of those who, avowedly, combined the two callings of builder and architect.

It was not until the latter part of the eighteenth century that there gradually grew up a small group of practitioners, catering to rich noblemen and gentlemen of taste, who, in contrast to the "builder-architects" of the provincial towns, limited their functions to those of the architect as we now understand the term.

There was an Architects' Club, in London, from 1791 onward, made up of men of the profession who met at stated intervals at the Thatched House Tavern in St. James Street.

* * *

THIS organization seems to have been social and convivial rather than professional, and numbered such leading architects of the period as Robert Adam, Chambers, Soane, Wyatt, Milne, Dance and D. P. Cockerell. The London Architectural Society, established in 1806, appears to have been an organization, the chief aim of which was mutual improvement. Each member bound himself to produce annually an original drawing and essay for discussion. This society seems not to have lasted a great while or to have exercised any considerable influence.

The Architectural Society established in 1831 seems to have been a much more intelligently directed effort. This society planned to hold annual exhibitions and to found a school of architecture, but after eleven years of abortive effort went the way of its predecessors.

* * *

IN February, 1834, there was called a meeting of London architects and surveyors for the purpose of forming a new society for the study of architecture and architectural topography. In July of the same year the members who were architects decided to withdraw and form a separate organization,

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which they did. They named the new body The Institute of British Architects. It was this group that in 1837 obtained a charter, styled itself the Royal Institute, was honored with an Annual Royal Medal in 1848, received new charters in 1887 and 1909, and is to-day the dominant architectural body of the British Empire.

A peculiarity of this organization worth mentioning is that in its earlier stages no one was permitted to join it who was not "by birth and social status, a gentleman." The Institute was not confined to professional architects. Talented amateurs were looked upon as highly desirable additions to its membership. It was supported largely by donations from wealthy patrons of its art. "Without and beyond the circle of its professional members," declared a published appeal, "it will at first be difficult to form and carry on such a society; so it would be forced to rely on the munificence which distinguishes so many noblemen and gentlemen in this country."

* * *

THIS reliance was by no means vain. For years the donations from these amateurs supplied more than half the annual revenue of the Institute. Earl de Gray was President down to his death in 1859 and not only took an active part in its proceedings, but entertained the members at his house and secured for them many courtly favors. The Institute appears to have fulminated bitterly at the practice of choosing architects by competition for the designing of public buildings.

In 1839, and again in 1843, the Institute thundered against this abuse, declaring that "there are few cases in which competition is anything but a convenient engine for fraud," and "that the modern practice of submitting designs in competing speculations for premiums, or for employment, or in any competition for preference, without specific or properly implied promise of certain payment to each and every competitor, operates injuriously upon architecture and upon the interests and character of the profession."

Mr. Webb remarks upon the fact that nowhere in these early records does he find any mention of the method of preparing for or entering the profession. In 1855, when a new metropolitan building act was passed, the Government entrusted to the Institute, as being the only available professional body, the duty of conducting the technical examination of architects who wished to obtain "certificates of competency" to hold the office of "building policeman" or Public Inspector of Building Plans in London, misleadingly styled that of District Surveyor, or, as various Local Acts put it, Building Surveyor.

IN the year 1859, when Earl de Grey died, a professional architect was elected to succeed him as president, new and more commodious premises were obtained, and the Institute entered into a new phase. The membership rapidly increased, especially in the provincial centers, and the Institute took on a more strictly professional character. The presidency was thenceforth held normally only for two years. The donations from wealthy amateurs, rewarded by Honorary Fellowships and Honorary Memberships, ceased to form an important item in the revenue. Though the Council of the Institute continued to be made up mainly of architects who had achieved opulence and distinction on the old lines, the Associates, and even the Fellows came to include more and more of the rank and file of men engaged in the erection of shops and factories, mills offices, and the mass of ordinary dwelling houses with which so much of the country was being covered. The technical and commercial aspects of the architect's duties obtained greater attention. The Institute was ceasing to be predominantly metropolitan in membership, and, moreover, it was not the only society to which architects could belong. The profession was, indeed, rapidly spreading to every large town.

* * *

LOCAL societies were formed in which architects could meet and discuss their common interests. In Dublin the Royal Institute of the Architects of Ireland had been established on the model of the British Institute as early as 1839. In the course of the next half a century local societies with divers titles were started in Liverpool (1842), Bristol (1850), Newcastle (1858), Edinburgh (1858), Nottingham (1862), Manchester (1865), Glasgow (1868), Leicester (1872), Birmingham (1873), Leeds (1876), York (1882), Dundee (1884), and Sheffield (1886), to be followed in 1890 by the South Wales and Devon and Exeter Societies, in 1898 by the Aberdeen Society, in 1911 by the Northamptonshire Society, and in 1912 by the Hampshire and Isle of Wight Association. These societies, which were completely autonomous, framed their own definitions of the limits of the profession, fixed for themselves the districts that they would take for their several spheres, elected their own students upon such qualifications as they chose, and, in some cases, added not only "Honorary Members" or "Honorary Associates," but also such new classes as "Lay Members," and "Associated Craftsmen," who are certainly not architects.

* * *

THESE local organizations—now known as the "allied societies"—were not hostile to the Royal In-

stitute, nor did they presume to be its rivals. On the contrary, they looked up to it as the premier society of the profession; and many of their leading members belonged to it as Associates or as Fellows. During the quarter of a century that followed on the expansion of the Institute in 1860, the numbers of these provincial societies—whether born and mainly trained there, or merely migrants from London who had settled in practice there—were, in fact, during the latter part of the nineteenth century, coming to constitute a considerable proportion of the Institute membership, which thus lost, by imperceptible degrees, its original character of a select group of personal acquaintances.

The embers of the Council of the Institute, who continued down to 1894 to be annually elected (and usually year after year re-elected) at the annual meeting of members in London, seem to have looked upon these changes with mixed feelings. There were some, even among the leading members, who wished the Institute to pass away from being merely a "subject association" and to take on avowedly all the functions of a professional association, aiming, for this purpose, at representing the whole profession and not merely its most distinguished or most successful members.

* * *

IN 1865, reverting for once only to the tradition of the first president, the Institute elected, not a professional architect, but that accomplished and distinguished dilettante, A. J. Beresford Hope, to fill the presidential chair. In his inaugural address the new president made for the Institution claims larger than its dominant members were then inclined to support. "I am ambitious," he said, "for the honor and usefulness of the Institute, and as the result of this ambition, I decline to remain where we are. . . . The Institute ought to be, *without rival and without demur, the central regulating areopagus of architecture*—as practiced by its professional votaries and as studied by the amateur—within this Imperial realm. The time should come when the absence of those letters which denote some grade in the Institute from the name of anyone who practices architecture should be as much the cause for inquiry as the absence of academic distinction from that of the clergyman who has the misfortune to be a Literate."

* * *

FROM this expanded slowly the Royal Institute of the present day with affiliation throughout the British Empire. Quite an interesting little historical glimpse backward, this Webb article. And one quite well worth the reading.

EDITORIAL NOTES

Announcement is made that contracts have been awarded for five of the huge army mobilization camps to be built at various locations by the United States Government, represented by Colonel I. W. Littell, Construction Quartermaster, Washington, D. C., and Major F. B. Wheaton, Advisory Architect, Washington, D. C., from plans prepared privately by Government architects and engineers. The camp at Ayer, Mass., will be built by Fred T. Ley & Co., of 52 Vanderbilt avenue, Manhattan; at American Lake, Washington, by the Heurley-Mason Company, Tacoma, Washington at Atlanta; Georgia, by Arthur Tufts, Atlanta, Georgia; at Columbia, South Carolina, by the Hardaway Construction Company, Columbus, Georgia; and at Wrightstown, N. J., by Irwin & Leighton, 126 North Twelfth street, Philadelphia, Pa.

* * *

California is leading the States in the amount of concrete construction placed under contract, so far having awarded the following work: Concrete roads, 1,047,720 square yards; streets, 113,120 square yards; alleys, 7,575 square yards; total, 1,168,415 square yards.

* * *

Ellis Soper, of the Cuban-Portland Cement Company, Mariel, Cuba, writes that by the aid of a steel tower 250 feet high some concrete foundations were poured 700 feet away. On account of the hot sun it was found that the use of a small percentage of hydrated lime was very beneficial in aiding the flow of the concrete. Making proper allowance for the relative elevations of the chute and the forms the inclination of the latter was found to be about 17 or 18 degrees. It is probable, on account of the great height, that the chutes were not easily accessible for cleaning or for the acceleration of the flow and that the flow was continuous and unimpeded. In any event, the horizontal distance spouted was nearly or quite a record and the height of the tower approaches the limit of economy and safety.

* * *

The members of the American Commission to France appointed to study reconstruction conditions abroad have just returned and report that there is an unquestioned demand developing for portable temporary buildings, materials for construction of permanent factories and residences, metal ceilings, window and door sash, Portland cement, lumber, rolled steel, and possibly basic clay products; in fact, any kind of material that will facilitate quick construction.

* * *

Officers for the ensuing year were elected as follows at the thirteenth annual meeting of the National Association of Sheet Metal Contractors, at Cleveland: President, George Harms, Peoria, Ill.; vice-presidents, Frank B. Higgins, St. Louis, Mo.; H. H. Lind, Cleve-

land, Ohio; T. P. Walsh, San Antonio, Texas; Otto E. Geussenhainer, Shelboygan, Wis.; secretary, Edwin L. Seabrook, Philadelphia, Pa.; treasurer, W. A. Fingles, Baltimore, Md. The trustees, including the three newly elected, are as follows: Louis Luckhardt, Pittsburgh; Edward Hildebrand, Denver; Sam Menezzer, Fort Worth; Frank B. Hiller, Cleveland; D. M. Haines, Chicago; John H. Hussie, Omaha; Alfred Holtman, Kansas City; Julius Geroek, St. Louis; Paul F. Brandstedt, Washington. Milwaukee was selected as the 1918 convention city.

* * *

At the annual meeting of the National Warm Air Heating and Ventilating Association these officers were chosen: President, D. Rait Richardson, New York; vice-president, W. G. Wise, Akron, Ohio; secretary, Allen W. Williams, Columbus, Ohio; treasurer, I. L. Jones, Utica, New York; Executive Committee, E. P. Miller, W. L. Dawbarn and George L. Wilkinson. John D. Green was unanimously elected an honorary member of this committee.

* * *

The Hart Manufacturing Company, manufacturers of heating and ventilating systems for school rooms, theatres, railroad stations and other public buildings, is moving its plant to Louisville, Ky. The company formerly was located at Arlington Heights, Ill., but recently incorporated under the laws of Kentucky, and decided to move its plant to the new location. Its pay roll will aggregate \$50,000 a year, and it will have representatives throughout the United States. It has recently signed a government contract for \$42,000 worth of work, including the making of pipe and field ovens. A. E. Hart is president of the company; D. E. Gordon, vice-president, and H. K. Cole is secretary-treasurer. C. E. Olson is the general sales manager.

* * *

Thomas W. Pearson, widely known from his connection for a number of years with the Williamson Heater Company, has recently associated himself with the W. E. Lamneck Company, manufacturers of furnace pipe and fittings, furnaces and the like, Columbus, Ohio. Mr. Pearson is manager of sales, and will look after the marketing of the new product of the Lamneck Company. This company recently entered the furnace pipe and fittings field, and has a new design of double wall pipe, as well as other styles, which has several distinctive features.

* * *

The "Guide" will publish in its issue of Wednesday, August 1, a copy of the ordinance relating to building material on the public highways passed recently by Philadelphia Councils and approved by the Mayor. Builders will be wise to familiarize themselves to some extent with the provisions of this legislation.

One of the most attractive sidewalk structures erected by a local builder in many a day is that set up by Messrs. George & Borst at Thirty-second and Market, where they are constructing what, it is claimed, will be, when finished, the finest warehouse building in the world. The stand is neatly latticed, painted attractively in green and white, embellished with flower boxes holding growing plants and bears an artistically lettered inscription setting forth the name of the builders and the class of work upon which they are engaged. It is not merely neat and engaging. It is of the very essence of good advertising.

* * *

An army of workmen is busy finishing the buildings that will comprise the first unit of the Worth Brothers Steel Company plant at Claymont, seven miles north of Wilmington, Del. A large rolling mill is being roofed over and all the steel structural work for it has been completed with the exception of some supplemental steel girders in the interior. The foundations for another building are being laid. It is reported that the company expects to duplicate in improved buildings and machinery its former Coatesville, Pa., plant.

* * *

A new suit over the question as to whether or not Philadelphia shall be put to hundreds of thousands of dollars of expense by having stone for public building cut here is threatened. Such a suit would again delay work on the planned Free Library on the Parkway with the probable result of the building costing a great deal more than present estimates, which are \$304,698 in excess of figures of three months ago.

No sooner had the construction work been awarded to John Gill & Sons, of Cleveland, at \$2,535,000 than Frederick C. Newbourg, Jr., counsel for Walter R. Taylor, announced that as over \$100,000 could be saved the city on the contract, if the stone were cut outside the city, he would raise the issue as to the constitutionality of the ordinances making the cutting of stone in Philadelphia compulsory.

Some time ago a suit started by Walter R. Taylor prevented the letting of the contract to the George E. Fuller Company at \$2,664,395. The same work, according to present estimates, will cost the city a total of \$2,969,395. Both figures include heating, plumbing and electrical work. The threatened suit is likely to hold up work for several months, and in the event of its success the new contract will be annulled and a third letting will become necessary.

In justification for the delaying tactics, Attorney Newbourg declares that to allow the stone to be cut in Philadelphia for the Free Library, Art Museum and Convention Hall would cost the city and taxpayers \$500,000. City officials claim that the loss due to delays occasioned by the suits will be in excess of that total.

* * *

Work has started on tearing down of a score of firetraps, to avoid fires, at Pottsville, Pa. The walls of the Slater Theatre, burned

a year ago, are also being torn down, by direction of State officials, as they are a menace to pedestrians.

* * *

Through the Philadelphia Subway Construction Company, the Vares underbid the Keystone State Construction Company, in which Senator McNichol is dominant, on constructing the new Northeast Sewage Disposal Works, Port Richmond, by \$127,790. Tabulation of the proposals, received was completed in the Department of Public Works and shows the aggregate of all items to total: Philadelphia Subway, \$919,700; Keystone State, \$1,047,490. There were no other bidders. Director of Public Works Datesman will award the contract in a few days, and there is no doubt the Vares concern will get it.

This is the first time these two companies, controlled by rival political leaders, have contested each other for a big public improvement contract other than transit work. The Philadelphia Subway Construction Company, it is said, was organized by Senator Vares primarily so he could compete with McNichol for contracts to build sections of the Broad street subway, and it obtained one of those awards.

The success of the Vares concern in obtaining the contract for the sewage disposal works is of special significance, because the northeast plant is a forerunner of others. The cost of the city's entire sewage disposal system, according to present plans, may go as high as \$25,000,000.

It often happens in case of large municipal projects that the contractor on an early section of work gets valuable experience, which enables him to put in low bids for succeeding contracts. There was allowed in the loans authorized last year \$3,200,000 for furtherance of the system.

* * *

Options and actual transfer have been obtained for land north of the Westinghouse plant at Essington for the great Government shipbuilding plant, which will be built by the American International Company, of the National City Bank. This plant, probably the greatest in the world, will employ 15,000 men and is to comprise fifty shipways.

* * *

J. V. W. Reynnders, of New York, formerly vice-president of the Pennsylvania Steel Company, appeared in court at Harrisburg last week to press his claim to a fee for \$50,000 as a receiver of the Central Iron and Steel Company of that city. The McCormick interests are interested in the company, and Vance McCormick, Democratic National Chairman, and other members of the family were present at the hearing. The case was continued until September 11.

* * *

Settlement will be made in a few days by Samuel Taubel for Horticultural Hall, adjoining the Academy of Music, which he purchased recently from the Horticultural Society for \$550,000. The building occupies a lot 90 feet on Broad street at the corner of Manning street, with a depth of 200 feet. A large sign which has been mounted on the

front of the building within the last few days makes the announcement that a theatre to seat 1,800 persons will be built on the rear of the lot, with two store and office buildings on the front entrance. The theatre, it is stated, will be ready to open on January 15, 1918.

* * *

W. S. Jones, of 5144 Wayne avenue, for many years connected with the general sales department of the Midvale Steel Company, has been elected vice-president of the Vanadium Alloys Company, of Pittsburgh and Latrobe.

* * *

The Pennsylvania Railroad is working under Government rush orders with all the speed at its command on the \$2,000,000 construction of a new double-track line, including a \$300,000 concrete bridge across the Schuylkill to Girard Point, connecting the 900-acre site of the big Government shipbuilding plant at Essington on the Delaware with its Philadelphia, Baltimore and Washington Division at Marcus Hook on one end and the Girard Point freight and river terminal on the other. The James McGraw Company, of Philadelphia, which has the contract for the entire line, is working from 700 to 800 men to-day, and hopes to have 1,5500 on the whole line of construction before long.

* * *

No increases in fire insurance tariffs for Pennsylvania are contemplated for the immediate future, it was stated after a meeting at the Hotel Traymore, Atlantic City, of the Executive Committee of the Underwriters' Association for the Middle Department. Fred Walker, chairman, of Harrisburg, presided over the preliminary Executive Committee session, which formulated matters for presentation to the main body, of which R. M. Stuart, of Philadelphia, is president. Pennsylvania has been a profitable field for fire insurance operations during the last four months, according to the special agents.

HOW TO BUILD HOUSES TO RETAIN HEAT.

When a man builds a house in which he is likely to spend a half or more of his days, it is a matter of some little importance to him that it be built well—not merely that it be built so that it will not fall down, but so that it will leak neither water nor weather. A leaky house is a misery and a misfortune. It is almost sure to be a permanent liability.

In building remember that no roofing is too good to cover your head. He who thinks to save money by using a cheap grade of shingles has much to learn at large cost. Shingles are not necessarily right because made of West Coast cedar, not because marked "Extra Star A Star." Before you buy shingles for your house, have the lumber merchant show you samples of all his stock. If he has a large variety, and something ultra good, order the best he has. A "thick clear" red cedar shingle on a not too flat roof will be found one of the most satisfactory roofings ever put on a dwelling.

Don't Experiment with Roof.

There are other good roofs, some of them better than shingles, perhaps, but if you don't know how good they are, insist on seeing the material and on interviewing men who have used them before trying an experiment with them yourself. A leak in a roof is one of the most prolific causes of a chronic profane temper in the householder. A leak in the roof is worse than a rat in the walls, harder to locate and harder to be rid of.

There is also a science in the laying of roofs. Study that seriously before your roof is laid and see that it is laid scientifically. A careless or dishonest workman may make a bad roof of the best roofing material.

Next to water leaking through the roof, your worst elemental enemy is wind. Weather leaks through the siding and about the windows and doors are leaks in your purse. It is not an uncommon thing in any city for a householder to throw two tons of coal every winter through the cracks in his house.

Two tons of coal at \$10 a ton is equal to the interest at 5 per cent. on \$400. Forty dollars added to the cost of material and labor put into the leaky house would have saved all this coal. When you are planning your house take a day off and look at all the varied kinds of felts and papers, fixtures and fabrics that are on display designed to "stop a leak to keep the wind away." Among them you will find something vastly superior to the old tar paper and back plaster, and something that will probably cost you no more money. Remember this, that builders these days know better how to build a weatherproof house than they did 20 years ago. Don't let any behind-the-times contractor build your house.

Here is something worth remembering. An attic floor with insulation is one of the best fuel savers ever devised. Build two houses side by side just alike except that one has an attic floor insulated and the other no attic floor at all, and when snow is on the city roofs and temperature at a certain point, you will see the snow melt on one of the roofs and not on the other. The coal bill in one will be larger than in the other. It costs money to melt snow on your roof.

If you buy a house already built assure yourself that its roof is waterproof and its walls weatherproof. Know that the man who built it is an honest builder. If ever you find yourself obligated to pay for a home with unmendable leaks in it the knowledge of the leaks will cut down your enjoyment of the home even more than the leak will drain your purse. Any construction that will save fuel is cheap, for fuel will be continuously dear. Two tons of coal a year will pay the premium on a snug little life insurance policy.—"Heating and Ventilating Magazine."

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stable, Garage and Repair Building, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, 1 story, 99x239 feet, asbestos roof, cement and wood floors, steam heating, electric lighting, rolled steel sash, fire and hollow metal doors, ornamental iron work, roof ventilators, gasoline storage system. Low bidders: McCloskey & Bahls, 1620 Thompson street, \$77,400; Wm. Linker Co., 831 Cherry street, \$79,200.

Store and Loft Building (remodeling), 614-16 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Akron Tire Co., on premises. Brick, 4 stories, 40x100 feet, slag roof, steam heat, electric light, tile and marble work, maple, pine and cement floors. Architect has received bids.

Residence (alt. and add.), Gowen avenue, Mt. Airy, Philadelphia. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner's name withheld. Stone, 2½ stories, 1 story rear and porch additions (plumbing and electric work reserved), hardwood floors, tile work. Plans in progress.

Boiler House, Girard Point, Philadelphia, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Concrete, 1 story, 30x50 feet, slag roof, concrete floors, rolled steel sash. Plans completed. Owners ready for bids.

Rectory, 7942 and 44 Tacony street, Holmesburg, Philadelphia. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owner's name withheld. Stone, 3 stories, 28x37 feet, slag roof, pine and cement floors, metal lath (steam heating reserved), electric lighting, tile and marble work. Architect has received bids.

Station "R" (alt. and add.), Kensington avenue, between Tioga and "J" streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut st., Philadelphia. Reinforced concrete and brick, one-story addition, 95x33 feet, slag roof (electric work reserved by owners), hollow metal sash and skylights, fire doors, roof ventilators, waterproofing. Owners taking bids, due July 26. The following are figuring: F. W. Van Loon, Denckla Building; F. A. Havens Co., 845 North Nineteenth street; H. E. Baton, 1713 Sansom street; John R. Wiggins & Co., Otis Building; Keystone Paving & Const. Co., 320 Richmond street.

Passenger Station (alt. and add.), Chestnut Hill, Philadelphia, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Consists of shelters and platforms (2), 1 story, 400 feet long, steel and frame, slag roofs, cement and asphalt floors, safety treads, ornamental iron work

(cement and steel reserved. Owners have received bids.

Hospital (alt. and add.), Nineteenth and Spring Garden streets, Philadelphia. Architects, DeArmond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owners, Philadelphia Osteopathic Hospital, care of Dr. J. Ivan Dufur, Pennsylvania Building, Philadelphia. Brick and concrete, brownstone trim, 3 stories, 50x110 feet, slag roof, concrete floors. Plans completed. Architects ready for bids.

Loft Building, Fifth and Locust streets, Philadelphia. Architect, Fred N. Greisler, Lafayette Building. Owner's name withheld. Brick (slow burning), 3 stories, 20x100 feet, slag roof. Plans about completed. Architect ready for bids in a week.

Residence (alt. into Store and Apartment), Twenty-third and Tioga streets, Philadelphia. Architect, private plans. Owner, Harry Chervin, 2100 Hunting Park avenue, Philadelphia. Brick, 3 stories, slag roof, pine floors, plumbing, hot water or steam heating, electric lighting, bulk windows, tile work, metal lath. H. H. Wehmeyer, 1004 Lehigh avenue, taking sub-bids.

Garages (48 cars), Fifty-fifth and Sansom streets, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Samuel Mitchell, 405 South Sixtieth street, Philadelphia. Brick and steel, 1 story, 105x125 feet, slag roof, cement floors, steam heating, electric lighting. Owner taking bids, due July 27. Graham-Campion Co., Otis Building, is figuring, in addition to those previously reported.

Court Room No. 453 (alt.), City Hall, Philadelphia. Architect, Joseph A. Poletter, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, Room 113, City Hall, Philadelphia. Brick, mill work, composition floors, marble work, metal lath, ornamental iron work. Low bidders, Mitchell Bros., 2125 Race street, \$9,981. (Only bid submitted.)

Caretaker's House, Queen Park, Philadelphia. Architect, Louis A. Marie, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, Room 113, City Hall, Philadelphia. Brick, 1½ stories, 16x13 feet, slate roof, cement floors. Low bidders: George Dobbin & Co., 414 South Forty-first street, \$1,689; Hogg Const. Co., 1634 Sansom street, \$1,740.

Store and Office Building, 1314 Walnut street, Philadelphia. Architect not selected. Owners, Samuel M. Clement, Jr., West End Trust Building, Philadelphia; John Eagleson (American Store Co.), Fourth and Willow streets, Philadelphia. Brick and stone, 5 or 6 stories, size of lot 21x170 feet. Work contemplated.

Residence (alt.), Carpenter street and Creshelm Road, Germantown, Philadelphia. Architect not selected. Owner, Sydney L. Wright, 129 Carpenter street, Germantown, Philadel-

phia. Stone, 3 stories. Work contemplated.

Store and Residence (alt. and add.), 1420 Walnut street, Philadelphia. Architect, Edward Buehler Delk, 34 South Seventeenth street, Philadelphia. Owners, the Misses Biddle, 1326 Spruce street, Philadelphia. Brick and steel, 3 stories, 26x190 feet, tin roof, oak and pine floors, metal bulk, rolled steel sash, hollow metal skylights, marble work, electric work, plumbing, steam heating. Architect has received bids.

Office Building, Girard Point, Philadelphia, \$25,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and steel, 2 stories, 26x84 feet, slate roof, cement and pine floors, steam heating, electric lighting, tile, marble and terrazzo work, metal lath, roof ventilators, waterproofing. Owners sub-letting.

Community Garages (8 or 10), rear 6025-29 Germantown avenue, Philadelphia. Architect, Wm. F. B. Koelle, Otis Building, Philadelphia. Owners, Koelle Motor Co., 5400 Germantown avenue, Philadelphia. Brick, 1 story, slag roof, cement floors. Plans in progress. Architect will take bids in a week.

Store (2), Show Room and Apartments (4) (alt. and add.), 6025-29 Germantown avenue, Philadelphia. Architect, Wm. F. B. Koelle, Otis Building, Philadelphia. Owners, Koelle Motor Co., 5400 Germantown avenue, Philadelphia. Brick, 3 stories, 40x75 feet, slag roof, hardwood, composition and cement floors (steam heating and electric fixtures reserved), tile work, electric lighting, hollow metal skylights. Architect has received bids.

Carpenter and Pattern Shop, Midvale, Philadelphia. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Brick and steel, 2 stories, 46x130 feet, rubberoid roof, concrete floors, steam heating, electric lighting, rolled steel sash, iron stairs, ornamental iron work, metal lath, safety treads, sprinkler system. Owners taking revised bids, due as soon as possible. The following are figuring: Wm. Steele & Sons Co., 34 South Fifteenth street; Warren, Moore & Co., Colonial Trust Building; Geo. F. Pawling & Co., 1432 South Penn Square; John R. Wiggins & Co., Otis Building; Metzger & Fisher, Otis Building; Irwin & Leighton, 126 North Twelfth street; W. W. Lindsay & Co., Harrison Building; Barclay White & Co., 1713 Sansom street, all of Philadelphia, and Geo. C. Deitrich, Riverside, N. J.

Dwelling (alt.), 1516 Sellers street, Frankford, Philadelphia. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner, Mrs. Redmond, on premises. Consists of new first story, brick front. Architect taking sub-bids.

Garage, Frankford avenue and Wakeling street, Philadelphia. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owners, Frankford Hospital, on premises. Brick,

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1 story, 20x32 feet, slate roof, cement floor, steam heating, electric lighting. Plans completed. Architect taking sub-bids.

Garage, 1721 Hunting Parke avenue, Philadelphia. Architect, Harry Zimmerman, 1208 Harrison street, Philadelphia. Owner, Mike Duplak, on premises. Brick, 1 story, 40x36 feet, slag roof, cement floors (heating, plumbing, electric lighting and gasoline storage system reserved). Plans completed. Owner taking bids.

Sales and Storage Building, 140-42 Dock street, Philadelphia. Architect not selected. Owners, Wm. T. Mullikin Co., Inc., 140 Dock street, Philadelphia. Brick, 5 or 6 stories, 50x150 feet. Work contemplated.

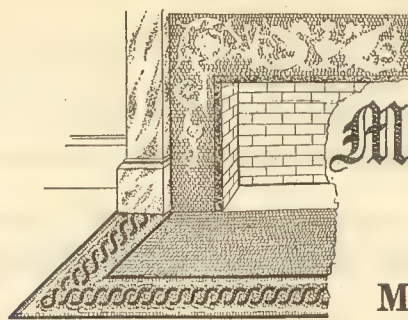
Garage, Sixty-fifth and Haverford avenue, Philadelphia. Architect, Ralph H. Hothersall, 1431 Jerome street, Philadelphia. Owner, Mrs. Dora Mulligan, 157 South Texas avenue, Atlantic City, N. J. Brick, 1 story, 45x145 feet, slag roof, steam heating, electric lighting, cement floors, roof ventilators (gasoline storage system reserved). Henry P. Schneider, 3713 Old York Road, has received sub-bids.

Store and Apartments (alt. and add.), northwest corner of Broad and York streets, Philadelphia. Architect, Herman H. Kline, 536 Mifflin street, Philadelphia. Owners, Bierns & Cylinder, 528 Mifflin street, Philadelphia. Brick, 3 stories, 17x73 feet, slag roof, hardwood floors, hot water heating, combination lighting, tile and marble work, metal ceilings. Plans completed. Owners taking sub-bids.

Store and Dwelling, Eighty-fourth and Brunswick streets, Philadelphia. Architect, Herman H. Kline, 536 Mifflin street, Philadelphia. Owner, D. Cohen, care of architect. Brick and stone, 2 stories, 16x55 feet, slag roof, pine floors, hot water heating, combination lighting, tile work. Architect has received bids.

Office Building (int. alt.), 510 North American street, Philadelphia. Architect, Herman H. Kline, 536 Mifflin street, Philadelphia. Owners, Pottash Bros., 512 North American street, Philadelphia. Brick, 3 stories, 16x42 feet, pine floors, hot water heating, electric lighting, tile work, cabinet and mill work. Plans about completed. Owners will take bids.

Store and Dwelling (alt. and add.), 1902 S. Sixth street, Philadelphia. Architect, Herman



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H. Kline, 536 Mifflin street, Philadelphia. Owner, Elias Weiner, on premises. Brick, third story addition, 16x53 feet, slag roof, hardwood floors, hot water heating, combination lighting. Plans in progress. Architect ready for bids in one week.

Store and Apartments (alt. and add.), Broad and Allegheny avenue, Philadelphia. Architect, Mahlon H. Dickinson, Bellevue Court Buildig, Philadelphia. Owners, Crumbie Bros., on premises. Brick, terra cotta and stucco, 3 stories, 65x160 feet, tile and tin roofs, cement, hardwood and composition floors, steam heating, electric lighting, tile and marble work, metal lath (painting, glazing, gas and electric fixtures, refrigerator, kitchen cabinets, gas ranges and hot water heaters reserved by owners). Architect taking bids, due July 27 at noon. The following are figuring: Henry P. Schneider, 3713 Old York Road; Conneen Const. Co., 1737 Filbert street; Philip Hainbach Const. Co., Twenty-sixth and Thompson streets; H. E. Baton, 1713 Sansom street, and Cunningham & Bartholomew, 4326 Paul street, Philadelphia.

Apartment House, Philadelphia. Architects, John I. Bright & J. Warren Myers, Otis Building, Philadelphia. Owner's name withheld. Reinforced concrete, stone, brick and terra cotta, 13 stories, 113x68 feet, J-M roofing, cement and oak floors, steam heating, electric lighting, tile, marble and terrazzo work, hollow metal sash and skylights, fire doors, iron stairs, ornamental iron work, hollow tile, metal lath, elevators (2), safety treads, wire work. Architects have received sub-bids.

Garbage Crematory, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, 2 stories, 17x40 feet, slag roof, plumbing, electric lighting, concrete floors, iron stairs, waterproofing. Owners taking bids, due July 30th. Metzger & Fisher, Otis Building; McCloskey & Bahls, 1620 Thompson street; Monaghan & Losse, Inc., 5016 Chestnut street, and Wm. Linker Co., 831 Cherry street, are figuring.

Cabin (D 5), Gray's Ferry Road, Philadel-

phia. Architects, Maintenance of Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Hollow tile and stucco, 2 stories, 18x15 feet, Rex strip shingle roof, steam heating, electric lighting, cement and pine floors. Revised plans completed. Owners, care of J. H. Gumbes, superintendent, Thirty-second and Powelton avenue, Philadelphia, will take bids.

Bridge (alt.), Delaware River, east of Frankford Junction, Philadelphia. Architect, private plans. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. New wood piles and timber construction. Owners, care of J. H. Gumbes, superintendent, Thirty-second and Powelton avenue, taking bids, due July 28th. Latta & Roberts, Drexel Building; Lincoln H. Smith, Hale Building; Armstrong & Latta, Land Title Building; A. L. Carhart, Hale Building; Brann & Stuart, Commercial Trust Building, and J. E. Brenneman Co., North American Building, Philadelphia, are figuring.

Loft Building, Front and Poplar streets, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Simon Weil, 837 North Third street, Philadelphia. Brick, 5 stories, 65x155 feet (slow burning), slag roof, steam heat, electric lighting, elevator, fire doors, fire towers, waterproofing, sprinkler system. Owner taking sub-bids.

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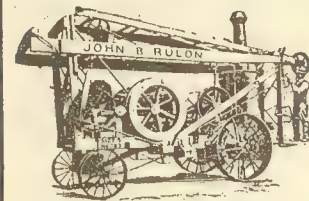
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Rooming House (alt. and add.), 805-07 Vine street, Philadelphia, \$1,500. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, M. Shapiro, on premises. Brick and steel, 1 story, rear addition, 12x20 feet, and alteration to first floor, slag or tin

roof, maple and cement floors, electric lighting, tile and marble work, metal lath, hollow metal skylights, flush bulks. Contract awarded to Isaac Woogman, 720 Morris street, Philadelphia.

Swimming Pool and Locker Room, Navy

Yard, Philadelphia. Architect, private plans. Owners, Y. M. C. A. War Council, 1425 Arch street, Philadelphia. Frame, 2 stories, 45x90 feet, rubberoid roofing, pine floors, concrete pool. Contract awarded to F. L. Hoover & Sons, 1023 Cherry street, Philadelphia.

Apartment House (alt. and add.), 3411 Race street, Philadelphia, \$6,000. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owners, Stein Realty Co., 3409 Race street. Brick, 3 stories, 20x118 feet, fire tower addition, slag roof (hardwood floors, plumbing, hot water heating, electric work, painting and decorating reserved), pine floors, tile and marble work. Contract award-

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ed to Philip Haibach Contr. Co., Twenty-sixth and Thompson streets, Philadelphia.

Warehouse (add.), 1017 Callowhill street, Philadelphia, \$3,500. Architect, S. K. Neubauer, 1118 Chestnut street, Philadelphia. Owners, R. A. Humphry's Sons, 1021 Callowhill street, Philadelphia. Brick and steel, 1 story, 20x86 feet, slag roof, cement and pine floors, electric lighting (steam heating reserved), hollow metal skylights, ornamental iron work. Contract awarded to Nicolas Nardy, 763 South Thirteenth street, Philadelphia.

Residence and Store (alt. and add.), 6133 Woodland avenue, Philadelphia. Architect, H. M. Pedrick, Lansdowne, Delaware County, Pa. Owner, G. Grosso, on premises. Brick, 2 stories, 13x16 feet, slag roof, pine floors, electric lighting, marble and terrazzo work, ornamental iron work. Contract awarded to George S. Roe, 6949 Saybrook avenue, Philadelphia.

Central Library, Twentieth and Vine streets, Philadelphia, \$2,535,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, care of Librarian John Ashhurst, Thirteenth and Locust streets, Philadelphia. Limestone and granite, 3 stories, 207x328 feet, tile, slag and copper roofs, marble, cork and tile floors, kalamein sash, steel doors, roof ventilators, waterproofing and dampproofing, passenger, freight and book elevators (plumbing, steam heating and electric work separate bids). Contract awarded to John Gill & Sons Co., Cleveland, Ohio.

Garage (alt. and add.), 6021-29 Germantown avenue, Philadelphia. Architect, Wm. F. B. Koelle, Otis Building, Philadelphia. Owners, Koelle Motor Co., 5400 Germantown avenue, Philadelphia. Brick, 1 story, 70x100 feet, slag roof, cement floors (steam heating and electric fixtures reserved), hollow metal skylights, gasoline storage system. Contract awarded to Albert Zellfelder, 151 South Broad street, Philadelphia.

Garage, Twenty-ninth and Gordon streets, Philadelphia, \$6,000. Architect, private plans. Owner, Wm. J. Clark, care of Francis S. Clark, Land Title Building, Philadelphia. Brick, 1 story, 50x100 feet, slag roof, cement floor (steam heating, electric work and gasoline storage system reserved). Contract awarded to Evans Const. Co., 9 South Eighteenth st., Philadelphia.

Engine House (add.), Ninth and Noble sts., Philadelphia. Architect, private plans. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick and steel, third story addition, 74x34 feet, slag roof, plank floors (lighting and painting reserved), fire doors, iron stairs. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

Toilet and Dressing Rooms, Ninth and Noble streets, Philadelphia. Architect, private plans. Owners, Swift & Co., 908 Noble street, Philadelphia. Brick, alteration to third floor (lockers reserved), plumbing, metal lath, electric lighting, concrete floors, waterproofing. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

Residence (alt.), 2022 DeLancey Place. Architects, Duhring, Okio & Ziegler, 1218 Chestnut street. Owner, Hiram H. Potts, 1834 Spruce street. Brick and stone, 3 stories. Consists of general interior alterations. Contract awarded to Wm. R. Dougherty, 1610 Sansom street, Philadelphia.

Toilet Room (alt.), Lafayette Building, Fifth and Chestnut streets, Philadelphia, \$1,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard Estate, Lafayette Building, Philadelphia. Painting, plastering and plumbing, tile and marble work, metal lath. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Stores (2) (alt. and add.), Broad and Columbia avenue, Philadelphia, \$12,000. Architect, LeRoy B. Rothschild, Bulletin Building, Philadelphia. Agents, Mastbaum Bros. & Fleisher, 1424 South Penn Square, Philadelphia. Brick, 1 story, slag roof (steam heating awarded), electric lighting, tile and marble work, flush bulks, maple and cement floors, metal lath. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Poultry Houses, Doylestown, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owners, National Farm School, Doylestown, Pa. Poultry house, stone and frame, 1 and 2 stories, 20x224 feet; brooder house, frame, 1 story, 24x106 feet; movable colony houses (15 or 20), frame, 1 story, 8x8 feet, shingle roofs, cement and pine floors (heating reserved). Plans completed. Architect ready for bids in a few days.

High School, Chester, Pa., \$400,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, George Mitchell, chairman, Chester, Pa. Stone, 3 stories, hollow tile, cement and pine floors, tile and marble work, metal lath (plumbing, heating and electric work separate bids). Plans in progress.

Bungalow, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owner, Minor Hannum, Coatesville, Pa. Stone, 1½ stories, 33x45 feet, hot water heat, electric light, shingle roof. Plans completed. Owner will take general bids.

Houses (30), Coatesville, Pa. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Lukens Steel Co., Coatesville, Pa. Frame, 1 story, 18x20 feet, slag roof, pine floors. Plans complete. Owners, care of Horace B. Spackman, vice-president, taking bids, due as soon as possible. Those figuring are: Thomas J.

Residence (alt.), 1308 North Broad street, Philadelphia, \$8,000. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, Dr. Louis Jurist, 916 North Broad street, Philadelphia. Brick and stone, 3 stories, tile roof (plumbing, electric work, paper-hanging reserved), alterations to hot water heating system, cement and parquet floors, tile and marble work, hollow metal skylights, metal lath. Contract awarded to Raith Const. Co., 304 West Master street, Philadelphia.

Building (int. alt.), 2025 Market street, Philadelphia. Architect, private plans. Owners, Jacoby & Son, on premises. Brick, cement and carpenter work, maple floors, plumbing, electric lighting. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Store and Dwelling, Harrison and Oakland streets, Frankford, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street. Owner, Harry C. Zeisig, 2428 North Napa street, Philadelphia. Brick and plaster, 2 stories, 21x65 feet, asbestos shingle roof, hot water heating, electric light, tile work, marbleoid and hardwood floors. Contract awarded to John C. Fotheringham, 3367 Frankford avenue, Philadelphia.

& J. R. Whelan, Mutual Life Building, Philadelphia; Westley Beard, and Dunleavy Bros., Coatesville, Pa.

Rectory, Coatesville, Pa. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Our Lady of the Rosary, Rev. Cajetan Diana, rector, Coatesville, Pa. Brick, 3 stories, 23x37 feet, steam heat, electric light, slate roof, maple floors, tile work. Architects ready for bids.

Store and Apartments (alt. and add.), Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owner, Harry D. Cohen, Coatesville, Pa. Brick, 2 stories, 40x120 feet, steam heat, electric light, tile work, slag roof, yellow pine floors. Plans completed. Architects ready for bids next week.

Residence, Ardmore Park, Montgomery County, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, Wm. S. Norton, Ardmore, Pa. Frame and stucco, 2 stories, 40x20 feet, hot water heat, electric light, slate roof, pine floors. Plans completed. Architect taking sub-bids.

Farmer's House and Garage, Byberry Road, Andalusia, Bucks County, Pa. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner's name withheld. Frame and stucco, 2 stories and basement, 32x40 feet, shingle roof, reinforced concrete and pine floors (electric work reserved by owner), steam or hot water heating. Plans about completed. Ar-

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chitect ready for sub-bids.

Paving and Grading, Ridley Park, Pa. Architect, Paul A. Davis, 3rd, 1713 Sansom st., Philadelphia. Owners, School Board of Ridley Park, Pa. Consists of cement walks, gutters, drives and grading. Concrete, crushed slag and stone and rip-rap. Wills-Ludwick & Co., 34 South Seventeenth street, Philadelphia, taking sub-bids, due as soon as possible.

Schools (2), Miners Mills, Pa., \$100,000. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Miners Mills School Board, Peter Mayock, secretary, Miners Mills, Pa. Plans about to be started. Details not yet decided.

Residence, Nanticoke, Pa. Architect, Henry Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. J. A. Norstedt, Nanticoke, Pa. Hollow tile and stucco, 2½ stories, 28x34 feet, steam heat, electric light, tile work, slate roof, hardwood and pine floors. Plans complete. Architect taking bids, due as soon as possible. Those figuring are: Susquehanna Lumber Co., Thos. P. Jones, of Nanticoke, and Lee & Scouton, of Hanover, Pa.

Macaroni Factory (alt. and add.), Hazleton, Pa. Architect, George F. Schroder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, J. Amerise, Hazleton, Pa. Brick, 3 stories, 60x70 feet, slag roof, yellow pine and maple floors, fire escapes, metal lath, high pressure boilers. Revised plans in progress.

Store Front, Wilkes-Barre, Pa., \$7,000. Architect, George F. Schroder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Dry Goods Co., Wilkes-Barre, Pa. Consists of general interior and exterior alterations, electric light, tile and marble work, oak floors, metal bulk window. Plans in progress.

Convent (alt.), Honesdale, Wayne County, Pa. Architects, Hancock & Rock, Mears Building, Scranton, Pa. Owners, St. Mary Magdeline Congregation, Honesdale, Pa. Brick veneer, 2½ stories, electric light, slate roof, pine floors. Plans completed. Architect has received bids.

Bank (add.), Wyoming avenue, Scranton,

Pa. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owners, Third National Bank, Scranton, Pa. Brick and limestone, 1 story and basement, 15x64 feet, Barrett roof, concrete floors, tile work. Plans in progress.

Double Residences (10), West Bethlehem, Pa. Architect, F. J. Miller, People's Bank Building, Scranton, Pa. Owners, J. W. Cammer Const. Co., Bethlehem, Pa. Frame and stucco, 2½ stories, 34x40 feet, furnace heat, gas and electric light, slate roof, pine floors. Plans completed. Owners taking sub-bids.

School, Dunmore, Pa., \$25,000. Architect, J. J. Howley, Traders' National Bank Building, Scranton, Pa. Owners, School Board of Dunmore, Dunmore, Pa. Frame, 2 stories, 4 rooms, steam heat, electric light, slate roof, pine floors (heating, plumbing and electric work reserved). Plans in progress.

Silk Mill (add.), Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Black Diamond Silk Mill, Scranton, Pa. Brick, 3 stories, 20x30 feet, slag roof, maple floors. Plans in progress.

Schools (2), Old Forge, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, School Board of Old Forge, Old Forge, Pa. Brick, frame and concrete, 1 story, 4 rooms, steam heat, electric light, slag roof, pine floors (heating, plumbing and electric work reserved). Plans completed. Owners have received bids.

Residence, Swarthmore, Pa., \$8,000. Architects, DeArmond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owner, Julius C. Kent, Harrison Building, Philadelphia. Frame and stucco, 2½ stories, 53x22 feet and 9x20 feet, shingle roof, pine floors, hot air heat, electric light. Contract awarded to Vincent S. Pownall, Swarthmore, Pa.

Almshouse (add.), Schuylkill Haven, Pa. Architect, Frank X. Reilly, Pottsville, Pa. Owners, Poor Directors of Schuylkill Haven, Schuylkill Haven, Pa. Brick, 1 story, 38x15 feet and 48x125 feet, steam heat, electric light, asbestos shingle roof, composition floors (heating, plumbing and electric work reserved). Plans in progress.

Sunday School, Athol, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Amityville Union Church, Athol, Pa. Brick, 1 story, 60x28 feet. Plans in progress. Too early for details.

Factory, Coaldale, Pa. Architect, Wayne M. High, 11 North Fifth street, Reading, Pa. Owners, Coaldale Hosiery Co., Coaldale, Pa. Brick, steel, reinforced concrete, 3 stories and basement, 99x50 feet, electric light, concrete floors, composition roof, roll steel sash, fire

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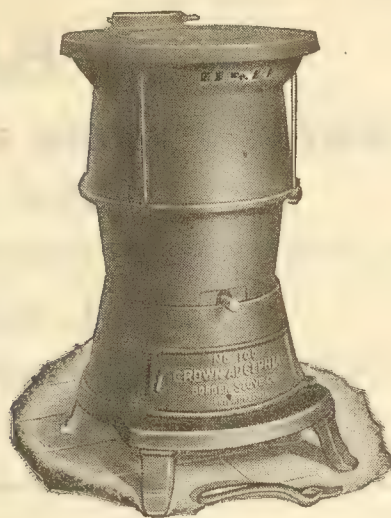
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Store (alt. and add.), 747 Penn street, Reading, Pa. Architect, J. E. Hickman, 119 South Fifth street, Reading, Pa. Owners, Imber Bros., on premises. Brick, 2 stories, 16x50 feet, steam heat, electric light, tin roof, pine floors. Plans completed. Architect ready for bids.

School, Boyertown, Pa., \$75,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board of Boyertown, Boyertown, Pa. Brick and stone, 2 stories and basement, 140x71 feet, steam or hot air heat, electric light, slag roof, maple floors, hollow metal skylights, kalamein doors, roof ventilators, waterproofing (heating, plumbing and electric work reserved). Plans about completed. Owners will take bids next week.

School (add.), Archbald, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board of Archbald, Archbald, Pa. Brick, 2 stories and basement, 30x60 feet, indirect heating system, electric light, shingle roof, pine floor (heating, plumbing and electric work reserved). Plans completed, owners ready for bids.

Office Building, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Macear Truck Co., Scranton, Pa. Brick and concrete, 1 story, 40x65 feet, steam heat, electric light, slag roof, pine floors, rolled steel sash, hollow tile, metal lath, metal ceiling. Plans completed. Architects ready for bids.

Church (alt. and add.), Wilkes-Barre, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, St. Stanislaus' Polish Catholic Church, Wilkes-Barre, Pa. Frame, 1 story, 40x40 feet, steam heat, electric light, shingle roof, pine floors. Plans complete. Architect ready for bids.

Machine Shop, South Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, W. H. Nicholson Machine Co., Wilkes-Barre, Pa. Brick, 1 story, 53x176 feet, slag roof, plank floors, iron stairs, galvanized iron skylights. Plans completed. Architects taking bids, due July 30. Those figuring are: Walborn & Barney, 177 Race street; Curtis & Co., 1 Hickory street; Shepherd Construction Co., Miners' Bank Building; E. T. Long, Coal Exchange Building, and John James, 62 South Grant street, all of Wilkes-Barre, Pa.

Mill (add.), Honesdale, Wayne County, Pa. Architects, Hancock & Rock, Mears Building, Scranton, Pa. Owners, Wayne Milling Co., Honesdale, Pa. Brick and concrete, 2 stories, electric light, slag roof, pine floors, rolled

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Church, Minersville, Pa. Architect, James A. Barrett, Connell Building, Scranton, Pa. Owners, Greek Catholic United Church of St. Peter and Paul, Rev. Ivan, pastor, Minersville, Pa. Brick, 1 story, slate roof, yellow pine floors, metal ceiling, waterproofing. Plans completed. Architect ready for bids.

Post Office, DuBois, Clearfield County, Pa. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Stone and brick, 1 story and basement, 98x78 feet, composition roof, terrazzo and cement floors, steam heating, electric lighting, marble work, fire and kalamein doors, iron stairs, ornamental iron work, metal lath, safety treads, roof ventilators, metal weatherstrips, waterproofing, dampproofing, wire work. Owners taking bids, due August 8. Metzger & Fisher, Otis Building, Philadelphia, are figuring.

Filter House and Basin, Darby, Pa. Architects, Willard, Case & Co., Whitehall Building, New York City. Owners, Griswold Worsted Co., Darby, Pa. Reinforced concrete and brick, 1 and 2 stories, 46x21 feet and 29x22 feet, slag roof, plank and cement floors (plumbing reserved), safety treads, ornamental iron work, waterproofing, wire work. Architects have received bids.

Passenger and Freight Station (add.), Export, Pa. Architects, Maintenance of Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Frame, 1 story, 25x52 feet, slate roof, pine and cement floors, steam heating, electric lighting. Plans completed. Owners, care of H. H. Russell, engineer, Pittsburgh Division, Pennsylvania Station, Pittsburgh, Pa., will take bids.

Freight Station, Brownsville, Pa. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, the Monongahela Railway Co., Brownsville, Pa. Reinforced

concrete, brick and terra cotta, 1 and 2 stories, 240x64 feet and 56x108 feet, asphalt roof, steam heating, electric lighting, marble and terrazzo work, mastic floors, rolled steel and hollow metal sash, fire, kalamein and hollow metal doors, ornamental iron work, hollow tile, metal lath, elevators, waterproofing. Owners taking bids, due July 30. Warren, Moore & Co., Colonial Trust Building, Philadelphia,

are figuring.

Residence, Stable and Garage, Gratersford, Montgomery County, Pa. Architect, Wan. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owners, Adam Schuler, Rahns, Montgomery County, Pa. Hollow tile and stucco, 1 and 2 stories, shingle roofs, hot water heating, pine and cement floors. Plans about completed. Owner will build.

Turntable, South Bethlehem, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete, steel and timber, 100 feet diameter (cast iron gate and frame reserved). Contract awarded to H. Denburger Cons. Co., Bethlehem, Pa.

Garage, Reading, Pa. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owner, Thos. Pepper, Reading, Pa. Brick, 1 story, 65x30 feet, hot water heat, electric light, slate roof, concrete floors. Contract awarded to Ossman Argood, Pottsville, Pa.

Theatre Building, 608-10 Hamilton street, Allentown, Pa. Architect, George Gerhard, 619 Penn street, Reading, Pa. Owner, George W. Bennethun, Reading, Pa. Brick (interior and exterior alterations), 40x170 feet. Contract awarded to W. A. Stein Co., Allentown, Pa.

Office Building, White Haven, Pa., \$18,000. Architect, James F. Schroder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Wilmot Eng. Co., White Haven, Pa. Brick, 2 stories, 34x82 feet, steam heat, electric light, slag roof, pine and hardwood floors, tile and mar-

ble work, metal lath, waterproofing (heating reserved). Contract awarded to Mr. Griffen, Hazleton, Pa.

Silk Mill (add.), Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Silk Co., Wilkes-Barre, Pa. Brick, 2 stories, 24x50 feet, and 4 stories, 20x30 feet, electric light, gravel roof, pine floor, rolled steel sash. Contract awarded to Curtis & Co., 1 Hickory street, Wilkes-Barre, Pa.

School, Dunmore, Pa., \$40,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board of Dunmore, Ed. P. Moore, secretary, Dunmore, Pa. Frame, 2 stories, 6 rooms and auditorium. Steam heat, electric light, slate roof, pine floors (plumbing, heating, ventilating and electric work reserved). Low bidders, Peck & Carmody, Dunmore, Pa.

Wall, Scranton, Pa. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owner, Y. M. C. A. of Scranton, Scranton, Pa. Stone, brick and iron, 23 feet high, 80x210 feet. Contract awarded to Peter Stipp, 327 North Washington avenue, Scranton, Pa.

Residences (100), Williamsport, Pa., \$2,500

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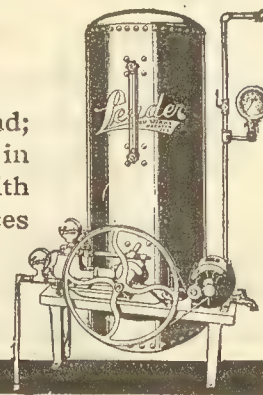
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each. Architect, George Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Williamsport Improvement Co., care of A. C. Everhart, Williamsport, Pa. Frame, brick, hollow tile, stucco, 2½ stories, 20x24 feet, hot air heat, electric light, slate roof, pine floors. Owners building.

Silk Mill, Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, George W. Frisbie, 514 Ash street, Scranton, Pa. Brick and concrete, 2 stories and basement, 68x112 feet, steam heat, electric light, slag roof, elevator (heating reserved). Contract awarded to Wm. Perry, Scranton, Pa.

Boat House, Harvey's Lake, Pa. Architect, George Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Richard Trethaway, 120 George avenue, Parsons (Wilkes-Barre), Pa. Frame, 1½ stories, 14x30 feet, shingle roof, pine floors. Contract awarded to Amos Kitchen, Alderson, Pa.

Insane Ward, Blakely (Scranton), Pa. Architect, E. H. Davis, Union Bank Building, Scranton, Pa. Owner, Blakely Poor District, care of architect. Brick, 2 stories and basement, 80x80 feet, steam heat, electric light, slate roof, concrete floors, plumbing, heating, wiring reserved). Contract awarded to L. T. Stipp, Union Bank Building, Scranton, Pa.

Factory Building, Wilkes-Barre, Pa., \$10,000. Architect, Frank Sahm, Second National Bank Building, Wilkes-Barre, Pa. Owners, Sanitary Cleaning and Dyeing Co., Wilkes-Barre, Pa. Brick and concrete, 2 stories, 45x45 feet, steam heat, slag roof, concrete floor, rolled steel sash, fire doors, iron stairs (plumbing reserved). Contract awarded to M. L. Roth, 127 South Welles street, Wilkes-Barre, Pa.

Residence (alt. and add.), Berwick, Pa. Architects, Knap & Bosworth, Wilkes-Barre, Pa. Owner, James L. Evans, Berwick, Pa. Frame, 2 stories, 46x30 feet, hot water or vapor heat, electric light, slate roof, oak floors. Contract awarded to Zimmerman & Kindig, Berwick, Pa.

Bank (alt. and add.), Wyoming avenue, Scranton, Pa., \$70,000. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owners, Third National Bank, Scranton, Pa. Brick and limestone, 3 stories, 67x80 feet, city steam heat, electric light, Barrett roof, marble floors, tile marble and terrazzo work, rolled steel sash, bank fixtures, metal bulk window, hollow tile, metal lath, metal window guards, ornamental iron work (plumbing and bank fixtures reserved). Contract awarded to E. S. Williams, Coal Exchange Building, Scranton, Pa.

Transformer and Switch House, Marcus Hook, Pa., \$10,000. Architect, private plans. Owners, Benzol Products Co., Marcus Hook, Pa. Brick, 1 story, 30x36 feet and 17x21 feet, slag roof, concrete floors, electric lighting, rolled steel sash, kalamein doors. Contract awarded to F. W. Van Loon, Denckla, Building, Philadelphia.

Office Building, Edgemont, Delaware County, Pa., \$20,000. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Edgemont Iron Works, Edgemont, Delaware County, Pa. Reinforced concrete, brick and steel, 2 stories, 32x80 feet, slate and slag roof, pine and cement floors, metal lath, hollow metal sash and skylight, fire doors (steam heating, plumbing and electric work reserved). Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

Residence and Garage, near Downingtown, Pa., \$42,000. Architects, Baily & Bassett, 421 Chestnut street, Philadelphia. Owner, J. Gib-

son McIlvaine, Fifty-eighth and Woodland avenue, Philadelphia. Stone, first floor reinforced concrete, 2½ stories, 36x140 feet; garage, 1½ stories (4 cars), slate roof (plumbing, heating, electric work and gasoline storage system reserved), hardwood and cement floors, tile work, metal lath. Contract awarded to Milton W. Young, Overbrook, Pa.

Lodge Building, East Chestnut street, Coatesville, Pa., \$40,000. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Loyal Order of Moose, Coatesville, Pa. Brick, 3 stories and basement, 46x143 feet, vapor heat, electric light, slag roof, hardwood and pine floors, tile work, hollow metal sash and skylights, fire doors, metal lath, elevators, roof ventilators, waterproofing, dampproofing (heating reserved). Contract awarded to Harry Osborne, Coatesville, Pa.

St. Paul's A. M. E. Church, Merchant street, Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owners, congregation of St. Paul's A. M. E. Church, Rev. Stanford, pastor, Coatesville, Pa. Brick and terra cotta, 1 story and basement, 35x70 feet, steam heat, electric light, slate roof, pine floors (heating, seating, electric fixtures and plumbing reserved). Contract awarded to J. W. Elliott, Coatesville, Pa.

Engine House (27 stalls), Reading, Pa., \$300,000. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia

and Reading Railroad Co., Twelfth and Market streets, Philadelphia. Reinforced concrete, steel and brick, 1 story, 14x27x32 feet asbestos roof, cement and wood floors, hollow tile, rolled steel sash, fire doors, wire work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence, Addition to Gardener's Cottage and Garage, Flourtown, Pa. Architects, Brookie & Hastings, 1713 Sansom street, Philadelphia. Owner, Wm. A. Glasgow, Jr., Real Estate Trust Building, Philadelphia. Brick and frame, 2½ stories, 101x35 feet, addition 2½ stories, 32x17 feet; garage, 2 stories, 50x30 feet, shingle roof, cement, pine and hardwood floors (plumbing, heating, electric work and gasoline storage system reserved), tile and marble work, metal lath, dampproofing. Contract awarded to George S. Roth & Son, 220 East Graver's Lane, Philadelphia.

Bridge No. 85, south of Birdsboro, Pa., on Wilmington Branch. Architect, private plans. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Steel and concrete, 5 spans, 21 feet. Contract awarded to Bennett & Randall, Reading, Pa.

Dye House, Pottstown, Pa. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Gudebrod Bros. Silk Co., Stowe, Pa. Brick and frame, 2 stories, 55x110 feet, slag roof, plan floors, fire doors, roof ventilators (heating and lighting reserved). Contract awarded to Wm. H. Wiand, Pottstown, Pa.

NEW JERSEY

Construction News

Machine and Rope Shops (adds.), Broad street, Trenton, N. J. Architect, private plans. Owners, American Steel and Wire Co., Trenton, N. J. Brick and steel, 1 story, 48x68 feet and 313x173 feet, slate and slag roofs, concrete and maple floors (steel and roof ventilators reserved). Owners have received bids.

Bungalow, Merchantville, N. J., \$5,000. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner's name withheld. Hollow tile and plaster, 2 stories, 22x39 feet (plumbing, heating and electric work reserved), shingle roof, hardwood floors. Architect has received bids.

Post Office, Vineland, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Stone, reinforced concrete and brick, 2 stories, 72x59 feet, steam heating, electric lighting, composition roof, pine and cement floors, marble work, metal lath, kalamein doors, safety treads, metal weatherstrips, dampproofing, ornamental iron work. Revised plans in progress.

School, Titusville, Mercer County, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Titusville School Board, Titusville, N. J. Brick. Plans in progress. Too early for details.

Laundry, Vineland, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, Board of Managers, State Home for Feeble Minded Women, Vineland, N. J. Brick, 1 story, 40x86 feet, slag and slate roof, steam heating, electric lighting, concrete floors. Revised plans completed.

School (add.), Masonville, Burlington County, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Mason-

ville, Masonville, Burlington County, N. J. Brick, 1 story (2 class rooms), slate roof, pine floors. Plans completed. Owners ready for bids.

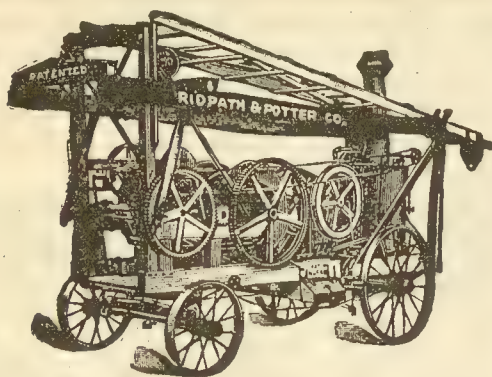
Double Cottage, Lisbon, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, State Colony for Feeble Minded Males, Mr. MacComber, superintendent, Lisbon, N. J. Cement block and stucco, 1 and 2 stories, 157x20 feet, asbestos shingle roof, steam heating, electric lighting, marble work, cement and pine floors, roof ventilators. Revised plans in progress.

School, Mt. Laurel, Burlington County, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Laurel, Laurel, Burlington County, N. J. Brick, 2 stories and basement, 68x60 feet, slate roof, pine floors (steam heating, electric work and plumbing reserved), waterproofing. Plans completed. Owners ready for bids.

Fire House, Trenton, N. J. Architect, W. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, City of Trenton, N. J., Department of Public Safety, Trenton, N. J. Brick, 2 stories, 46x65 feet, hot water heating, electric lighting, slag roof, yellow pine floors (heating and plumbing reserved). Low bidder, Samuel Hilton, 14 Ellsworth st., Trenton, N. J.

Fire House, Vineland, N. J. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, office of Commissioners, City Hall, Vineland, N. J. Brick, 2 stories, 29x70 feet, Barrett roof, electric lighting, concrete and pine floors (hot water heating reserved). Low bidders, Mutual Engr. Co., Franklin Building, Philadelphia, \$9,975.

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NEW JERSEY

Contracts Awarded

Workshop, Bordentown, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, School for Colored Youths, Bordentown, N. J. Brick and concrete, 1 story, 42x110 feet, slag roof, steam heat, electric light, rolled steel sash, concrete floors, hollow tile, roof ventilators. Contract awarded to Charles Fenimore, Bordentown, N. J.

State Hospital (alt. and add.), Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, Board of Managers, State Hospital, Trenton, N. J. Concrete floors, hollow metal sash and skylights, fire or kalamein doors, fire escapes, dumb waiter, metal window guards. Contract awarded to Carl Poinsett, 37 Maple street, Trenton, N. J.

Aviation Buildings, Cape May, N. J., \$200,000. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Hangers (2), barracks (2), officers' barracks (1), mess hall and kitchen, carpenter shop, storage house, truck house, boat houses, piers (2), hydrogen generator house, frame, 1 story, various sizes, ready roofing, plumbing, heating, electric work, concrete floors, piling, millwork, hardware, sheet metal work, ventilators, painting, glazing. Contract awarded to Cramp & Co., Denckla Building, Philadelphia, who are ready for sub-bids.

Hospital Buildings (17), Cape May, N. J., \$150,000. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Frame, 1 story, ready roofing, plumbing, heating, electric work, concrete floors, mill work, hardware, sheet metal work, ventilators, painting and glazing. Contract awarded to Cramp & Co., Denckla Building, Philadelphia, who are ready for sub-bids.

Residence and Stable (alt. and add.), Riverton, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Stanley Groves, Riverton, N. J. Frame, 1 and 3 stories, shingle roof, hardwood and cement floors, hot water heating, electric lighting, stable fixtures. Contract awarded to Steward L. Maines, Moorestown, N. J.

Store and Apartments (alts.), East Hanover street, Trenton, N. J. Architect, G. Osborne Hunt, 114 North Montgomery street, Trenton, N. J. Owners, Trenton Supply Co., Broad Street National Bank Building, Trenton, N. J. Consists of steam heat, electric light, pine and maple floors, roof ventilators, metal ceilings, store fixtures. Contract for mason work awarded to Edw. D. LaRue, 53 South Hermitage street, Trenton, N. J., and carpenter work to Charles Smith, Trenton, N. J.

Maryland Construction News

Brewery (add.), Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, the Standard Brewery Co., 1766 North Gay street, Baltimore, Md. Brick and concrete, 3 stories, 30x50 feet, slag roof, cement and maple floors (steam heating and electric work reserved), metal lath, rolled steel sash, fire doors. Plans in progress. Architect ready for bids in two weeks.

Store and Apartments, 520 Columbia avenue, Baltimore, Md., \$3,000. Architect, J. C. Spedden, 2715 Harlem avenue, Baltimore, Md.

Owner, Dominick Citrano, 518 Columbia avenue, Baltimore, Md. New front, lowering floors, metal ceiling, electric wiring. Owner taking bids.

Dressing Room, Remington avenue, Baltimore, Md. Architect, Jas. A. Wetmore, Washington, D. C. (Treasury Department). Owners, U. S. Marine Hospital, Remington avenue, Baltimore, Md. Brick and steel, heating, electric work, plastering and painting. Architect taking bids, due August 2nd. Singer-Pentz Co., Equitable Building; P. C. Street, 4071 Homer avenue, and Cogswell-Koether Co., 406 Park avenue, Baltimore, are figuring.

Factory, South Carey street, near Hamburg street, Baltimore, Md. Architect and engineer, P. O. Kielholtz, 1602 Continental Building, Baltimore. Owners, Baltimore Gas Appliance Co., Bayard and Hamburg streets, Baltimore. Brick, 1½ stories, steel beams, slag roof, millwork, steam heating, electric work, concrete work, plumbing. B. F. Bennett Building Co., 123 South Howard street, Baltimore, is figuring.

Factory and Office Building, Bush street and Baltimore and Ohio Railroad, Baltimore, Md. Consulting engineer, Herman F. Doelman, American Building, Baltimore. Owners, McNamara Bros. Co., Ranstead's Wharf, Baltimore, Md. Brick, steel and concrete, 2 stories, 80x160 feet, slag roof, metal ceilings, hollow tile, stucco, painting, steel rolling doors, steel sash, hardware. Revised plans in progress.

Garage, Barclay and Henderson streets, Baltimore. Architects, Emory & Nussear, 330 North Charles street, Baltimore. Owner, Mrs. Julia R. Emory, 17 East Twenty-second street, Baltimore, Md. Brick and concrete, 1 story, 50x50 feet, composition roof, concrete foundations, electric lighting, plumbing. Architects taking bids, due in a few days. Henry A. Knott, 2102 North Calvert street; Lorenz Schoenlein & Son, Gunther Building, Baltimore, Md.; L. C. Woods, Govans, Md.; T. W. Cox, Pikesville, Md., are figuring.

Residence (alt. and add.), 723 St. Paul street, Baltimore, Md. Architect, private plans. Owner, Miss A. Campbell, on premises. Brick, 4 stories, 27x32 feet, slag roof, steam or hot water heat, electric light, plastering, painting and plumbing. Owner taking bids. B. F. Bennett Building Co., 123 South Howard street, Baltimore, is figuring.

Factory, Calvert street, near Mt. Royal avenue, Baltimore, Md. Architect, Clyde N. Friz, Munsey Building, Baltimore. Owners, Baltimore Buggy Top Co., 107 West Mt. Royal avenue, Baltimore. Steel and concrete, 4 stories, 75x120 feet, brick work, slag roof, concrete and wood floors, steam heating, electric light, elevator, ornamental iron work, steel sash, skylights, ventilators, plastering, painting, plumbing. Architect taking bids, due July 27th. Consolidated Eng. Co., Cogswell-Koether Co., G. Walter Tovell, Cowan Building Co., Price Concrete Const. Co., B. F. Bennett Building Co., E. G. Turner, Walter E. Burnham, John Hiltz & Sons, Clarence E. Stubbs, Gladfelter & Chambers, and H. D. Watts Co., all of Baltimore, Md., are figuring.

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Maryland

Contracts Awarded

Factory, Guilford avenue and Federal street, Baltimore, Md., \$12,000. Architect, Charles M. Anderson, 324 North Charles street, Baltimore. Owners, Maryland Brass and Metal Works, on premises. Steel and concrete and brick, 2 stories, 46x91 feet, composition floor. Contract awarded to Price Concrete Co., Maryland Trust Building, Baltimore.

Garage and Machine Shop, Fleet street and Fifth avenue, Highlandtown, Md. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owners, Krdle Packing Co., 3811 Eastern avenue, Baltimore, Md. Brick, 2 stories, 51x58 feet, reinforced concrete roof, steel sash and windows, metal covered doors, slag roof, electric work, steam heating, concrete floors. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Office Building and Storehouse No. 2, Fort avenue and Fort McHenry Line, Baltimore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore, Md. Owners, Baltimore Dry Docks and Ship Building Co., care of Holden A. Evans, Locust Point, Md. Brick and reinforced concrete, 3 stories, 50x150 feet and 150x200 feet, slag roof, concrete floors, steel work, galvanized work, skylights, dampproofing, plastering, painting, plumbing, slate work, metal frames and sash, fire door, hardware (steam heating and electric work reserved). Contract awarded to West Const. Co., American Building, Baltimore, Md.

Cantonment Camp, Charlotte, N. C., \$1,500,000. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Frame, 1 story, felt roofs. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Dwellings (15) and Store, Piedmont, west of Hilton street, Baltimore, Md. Architect, Norman E. Horn, 2810 North Calvert street, Baltimore, Md. Owner, Paul Mules, Gunther Building, Baltimore, Md. Brick, 2 stories, 22x40 feet, tin roof, steam heating, electric lighting, plastering, painting, plumbing. Owner will take sub-bids.

Factory, Towson, Md. Architect, Herman F. Doeleman, American Building, Baltimore, Md. Owners, Black & Decker Building Co., 105 South Calvert Building, Baltimore, Md. Frame, 1 story, 60x200 feet, asbestos shingle roof and sides, concrete floors, sheet metal, concrete work, tile work, hardware, painting, mill work. Contract awarded to Cowan Building Co., 106 Madison street, Baltimore, Md.

Office and Superintendent's House, Woodlawn, Baltimore, Md. Architects, Mottu & White, 324 North Charles street, Baltimore, Md. Owners, Woodlawn Cemetery Co., Title Building, Baltimore, Md. Stone and brick, concrete foundations, 2 stories, 25x35 feet, composition roof, iron work, galvanized iron work, plastering, painting, tile and stucco work, hardware (heating, electric work and plumbing reserved). Contract awarded to W. E. Harn Co., 213 North Calvert street, Baltimore, Md.

Y. M. C. A. Buildings, Camp Admiral, Md., \$60,000. Architect, private plans. Owners, War Work Council of International Y. M. C. A., H. W. Turner, Casualty Tower, Baltimore, Md. Frame, concrete or brick, Association buildings (8), warehouse, auditorium and administration building, composition roof, heating, electric work. Contract awarded to Claiborne-Johnson Co., Garrett Building, Baltimore, Md.

DELAWARE

Construction News

School, Laurel, Del., \$35,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Commission of Laurel, Laurel, Del. Brick and concrete, 2 stories and basement, 88x100 feet, electric light, slag roof, pine floors, mechanical heating system (heating reserved). Plans in progress.

Stable and Garage, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, T. D. Lackey, Wilmington, Del. Brick and stone, 2 stories, electric light, slag roof, pine floors. Plans completed. Architect has received bids.

Store and Residence, Third and Lincoln streets, Wilmington, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Mr. Romenalli, care of architect. Brick, 2 stories and basement, 20x67 feet, hot water heat, electric light, slag roof, pine floors. Plans in progress. Architect will take bids next week.

Factory Building (alt. and add.), Second street, between Orange and Tatnal streets, Wilmington, Del. Architect, E. L. Rice, 815 Market street, Wilmington, Del. Owners, P. Lorillard Co., on premises. Brick, 3 stories and basement, 73x94 feet, steam heat, rolled steel sash, fire doors, fire escapes, slate roof, metal lath, elevator (electric work and heating reserved). Plans completed.

Tire Shop (alt. and add.), Delaware avenue, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, N. W. Howell, on premises. Brick, 3 stories. Consists of general interior alterations. Plans complete. Architect ready for bids.

Residence, Wilmington, Del., \$20,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, J. J. Kennedy, Ford Building, Wilmington, Del. Brick, 3 stories, 38x50 feet, vapor vacuum heat, electric light, tile and marble work, slate roof, hardwood floors, metal lath. Plans completed. Architect taking sub-bids.

Fire House, Marcus Hook, Pa., \$10,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, Fire Company No. 1, Marcus Hook, Pa. Brick and terra cotta, 2 stories, 40x65 feet, hot water heat, electric light, slag roof, cement and hardwood floors. Plans in progress.

State Armory, New Castle, Del. Architect, Leon W. Crawford, Odd Fellows' Building, Wilmington, Del. Owners, State of Delaware, care of Colonel Wickersham, Wilmington, Del. Brick, 2 stories, 102x50 feet, electric light, slag roof, pine floor (heating and plumbing reserved). Contract awarded to James Hirons, Dover, Del.

Miscellaneous

Construction News

Theatre, Richmond, Va., \$200,000. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owner's name withheld. Brick, concrete and steel, terra cotta, 160x96 feet, metal roof, steam heating, electric lighting, ventilators, reinforced concrete, metal lath, plastering, tile and marble work, painting, plumbing. Plans in progress.

Buildings (4), Charlestown, W. Va. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick. Machine shop, 1 story, 111x402 feet; foundry and forge shop, 135x562 feet; heat treatment plant, 92x153 feet, lavatory and locker rooms, 75x112 feet, composition roof, steam heat, electric lighting rolled steel sash, fire and hollow metal doors, concrete floors, hollow tile, iron stairs, metal weatherstrips, waterproofing, wire work, ornamental iron work. Low bidders, Warren, Moore & Co., Colonial Trust Building, Philadelphia.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Twenty-fourth and Fairmount avenue, \$10,300. James T. Finnesey (O), Twenty-sixth and Parrish streets. Herman Voight (C), Twenty-eighth and Thompson streets. Brick, 1 story, 64x88 feet, slag roof.

Dwellings (2), 941-43 South Ninth street, \$5,200. G. DiNegro (O), 536 Mifflin street. Dillon & Pitz (C), 1223 South Twentieth street. Brick, 3 stories, 15x27 feet, slag roof.

Garage, Sixty-first and Greenway, \$700. Joseph R. & R. S. McConnell (O and C), on premises. Brick, 1 story, 16x64 feet, slag roof.

Dwellings (2), Lincoln and McCallum sts., \$27,000. James N. Mitchell (O and C), Forty-sixth and Market streets. Stone and brick, 3 stories, 28x38 feet and 30x48 feet, slate roof, hot water heating.

Garage (4), Smedley and Fisher's Lane, \$4,000. H. Perloff (O and C), 1576 Lindley avenue. Brick, 1 story, 20x15 feet and 17x126 feet, slag roofs.

Dwellings (4), Smick and Leverington avenue, \$9,200. Martin H. Keller (O), 326 DuPont street. William E. Keller (C), 480 Harmon Road. Brick, 2 stories, 14x41 feet, slag roof.

Dwelling, Ninth and Cayuga streets, \$3,500. John Clasby (O and C), 4353 North Eighth street. Brick, 2 stories, 17x30 feet, slag roof, hot water heating.

Garage, Frankford avenue and Wakeling street, \$2,500. Frankford Hospital (O), on premises. Samuel D. Miller (C), 916 Crozer Building. Brick, 1 story, 20x32 feet, slate roof.

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Reservoir, Twenty-eighth and Parrish sts., \$1,000. Powell Knitting Mills (O), on premises. D. E. Troy Co. (C), 2622 Parrish street. Reinforced concrete.

Railroad Station and Platform, Morris st. and Pulaski avenue, \$20,000. Pennsylvania R. R. (O), Broad Street Station. Fred A. Havens Co. (C), 845 North Nineteenth street. Platform, 480x12 feet; elevator enclosure, 16x94 feet; stairs, 44x7 feet; waiting room, 50x10 feet.

Garage, 4228 Girard avenue, \$550. R. G. Savage (O), on premises. Wm. H. Naylor (C), 4034 Germantown avenue. Brick, 1 story,

16x20 feet, slag roof.

Office and Laboratory, Richmond and Kennedy street, \$10,800. Charles Lennig Co. (O). George W. Crosley (C), 2264 Bridge street. Brick, 2 stories, 20x50 feet, slag roof.

Exhibition Building, 3400 Disston street, \$600. Pennsylvania Wire Glass Co. (O), Dunbar, Pa. F. W. VanLoon (C), Denckla Building. Iron on iron, 13x20 feet.

Dwelling, Leverington and Manayunk avenue, \$3,800. M. H. Keller, Jr. (O), 326 Dupont street. Wm. E. Keller (C), 480 Harmon Road. Stone, 3 stories, 14x26 feet, slate roof, hot water heating.

Alterations and Additions

Nursery, 35 North Firtieth street, \$600. W. Oake (O), 260 South Tenth street. Mitchell Bros. (C), 2125 Race street. Brick, 1 story, 11x12 feet, bath room.

Dwelling, 5900 Thompson street, \$600. C. B. Russell (O), on premises. Charles T. Robertson & Son (C), 5909 Thompson street. New hot water heating.

Meat House, 22-24 North Delaware avenue, \$3,000. Swift Co. (O), Ninth and Girard avenue. A. R. Raff Co. (C), 1633-35 Thompson street. Steel condenser tower on roof, 10x25-22 feet high.

Dwelling, 618 Mifflin street, \$800. Morris Snyder (O), on premises. W. L. Wernberg (C), 740 West Moyamensing avenue. Brick, 2 stories, 12x15 feet.

Hotel, 1429-31-33 Walnut street, \$6,000. S. L. Brumbaugh (O and C), 1437 Walnut street. Brick, 1 story, 50x65 feet.

Dwelling, Eleventh and Mifflin streets, \$6,000. A. Leibowitz (O and C), 2342 North Twenty-ninth street. Brick, 2 stories, 13x23 feet, slag roof.

Factory, Seventeenth and Buttonwood sts., \$2,550. Baldwin Locomotive Works. Brick, 3 stories, 30x15 feet.

Warehouse, 1033-35 Master street, \$750. P. DiBiasco (O), 1420 North Twelfth street. G. De Marco (C), 1224 Christian street. Brick, 3 stories, 31x29 feet, slag roof.

Factory, Haverford and Sixty-ninth street, E. S. Sunderland (O), on premises. J. D. Fisher (C), 5426 Thompson street. Brick, 1 story, 9x12 feet, slag roof and alterations.

Church, Seventy-seventh and Lyons avenue, \$8,000. Mt. Calvary Presbyterian Church (O), on premises. E. J. Kreitzburg (C), 1345 Arch street. Stone, 2 stories, 62x64 feet, slag roof.

Garage, 6165 Catherine street, \$1,000. E. W. Cook (O and C), on premises. Brick, 1 story, 27x16 feet, slate roof.

Dwelling, 1929-31 Brandywine street, \$1,000. E. M. Flood (O), 2006 Wallace street. W. W. Warren (C), 1336 McKean street. Alterations.

Store, Main street, Roxborough avenue, \$600. P. Orlines (O and C), 105 Roxborough avenue. Brick, 1 story, 20x20 feet.

Foundry, 46 Richmond street, \$3,000. Ajax Metal Co. (O), on premises. M. W. Easby, Inc. (C), 1420 Chestnut street. Connecting bridge, rolled steel sash.

Store, 807 Vine street, \$1,500. M. Shaprio (O), on premises. J. Noogman (C), 720 Morris street. Brick, 1 story, 12x14 feet, flush bulk and alterations.

Dwelling, 136 North Seventeenth street, \$1,500. Dr. A. McGinn (O), Logan and Green street. W. C. Wells (C), 124 South Thirty-sixth street. Alterations for Parkway.

Shop, 10 North Twenty-first street, \$365. M. P. Walsh (O), 2100 Market street. Owen Fog-

arty (C), 1918 Cherry street. Alterations.

House for Priests, 4420 East Thompson street, \$925. Rev. E. Prendergast (O), Eighteenth and Race streets. Thomas Jasniski (C), 4530 Milnor street. Brick, 1 story, 10x24 feet, slate roof.

Dwelling, 6005 Torresdale avenue, \$1,600. Julia E. Schnitzler (O), on premises. Bukelback & Sons Co. (C), 4608 Richmond street. Brick, 2 stories, 16x18 feet, slag roof.

Wash House, Sixteenth and Fitzwater sts., \$450. Murphy Bros. (O), on premises. Kirk & Reid (C), 321 South Juniper street. New roof.

Store, 928 South street, \$500. D. M. Naldorfsky (O), 942 South street. A. Rubin (C), 1127 Thompson street. Change bulk front.

Cold Storage, American and Callowhill sts., \$1,500. Louis Pineus (O), on premises. United Cork Co. (C). Brick, 1 story, 15x9 feet, and alterations.

Store and Dwelling, Fifty-second and Girard avenue, \$900. C. Demetraiars (O), 1202 North Fifty-second street. John S. Hemphill, Jr., & Co. (C), 5313 Girard avenue. Steam heating plant.

Greenhouse, 1309 Seller street, \$1,000. G. A. Thiele (O and C), on premises. Boiler and coal on top service.

Store, 515 Market street, \$1,200. E. White (O), on premises. A. Barskey (C), 636 Pine street. New bulk and alterations.

Store and Dwelling, 1243 Germantown avenue, \$950. LeDel Realty Co. (O), 1203 North American Building. Thomas B. Monaghan (C), 2009 Sansom street. Hot air heater.

Dwelling, 1319 Mott street, \$825. John Manuel Estate (O), 715 Chestnut street. Thos. B. Monaghan (C), 2009 Sansom street. New wall.

Store, 934 Arch street, \$550. Wm. N. King (O), on premises. Shechtman (C), 1734 North Seventh street. New flush bulk.

Auto Repair Shop, 5547 Arch street, \$600. Model Repair Co. (O), on premises. George M. Crowl (C), 5510 Wyalusing avenue. Brick, 1 story, 28x48 feet, slag roof, 6 skylights.

Home for the Poor, Rittenhouse and Pulaski avenue, \$995. Township of Germantown (O). Stokes Bros. (C), 6733 Musgrove street. Alterations.

Factory, Montgomery avenue and Fourth street, \$1,600. John B. Stetson Co. (O and C). Fifth and Montgomery avenue. Cutting opening for bridge, brick and steel.

Dwelling, Memphis and Willard avenue, \$800. J. Fabbrieco (O), on premises. Ferdinando Pizzille (C), 3337 Almond street. Brick, 2 stories, 14x12 feet, slag roof.

Warehouse, 234 North Delaware avenue, \$3,000. Pennsylvania Co. for Insurance on

Lives, Granting Annuities (O), 517 Chestnut street. John Duncan (C), 920 Walnut street. Repair fire damage.

Warehouse, 127 Market street, \$500. Coates Bros. (O), on premises. John Duncan (C), 920 Walnut street. New concrete foundations.

Store and Dwelling, 1634 Venango street, \$1,800. Philip Corbin (O), on premises. B. Arrow (C), 860 North Sixth street. Brick, 1 story, 3x20 feet, and new bulks.

Engine House, Robbins and Delaware avenue, \$9,500. Philadelphia Electric Co. (O), Tenth and Chestnut streets. F. A. Havens Co. (C), 845 North Nineteenth street. Brick, 1 story, 41x17x37 feet, slag roof.

Dwelling, 6133 Woodland avenue, \$2,900. G. Grosst (O), 6127 Woodland avenue. G. S. Roe (C), 6949 Saybrook avenue. Brick, 1 story, 14x16 feet rear; 2 stories, 13x16 front. slag roofs.

Factory, 243-45 South Third street, \$700. Fidelity Trust Co. (O), 325 Chestnut street. Brownworth Co. (C), 1611 Sansom street. Fire escape.

Tenement, 933 South Eleventh street, \$550. W. E. Barcus (O), 1328 Chestnut street. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

Garage, 6025 Germantown avenue, \$2,000. Wm. T. B. Koelle (O), Sixteenth and Sansom streets. Albert Zellfelder (C), Broad and Walnut streets. Alterations.

Office, Nineteenth and Pennsylvania avenue, \$4,000. American Stores Co. (O), Fourth and Willow streets. H. M. Kister (C), 621 Sansom street. Alterations.

Dwelling, 1428 Snyder avenue, \$600. J. J. Fitzgerald (O), 1430 Snyder avenue. James A. Fitzgerald's Sons (C), 1623 Snyder avenue. Brick, 1 story, 15x16 feet, slate roof.

Dwelling, 3411 Race street, \$5,900. Stein Realty Co., 3409 Race street. Philip Halbach Cont. Co. (C), 1261 North Twenty-sixth street. Fire tower and alterations.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 16, 1917.—Sealed proposals will be opened in this office at 3 P. M., August 20, 1917, for the extension and remodeling of the United States Post Office (old) at Pittsburgh, Pa. Drawings and specifications may be obtained from the custodian at Pittsburgh, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 19, 1917.—Sealed proposals will be opened in this office at 3 P. M. August 30, 1917, for the construction of the United States post office at Franklin, Pa. Drawings and specifications may be obtained from the custodian of the site at Franklin, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
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Insurance.

Harris J. Latta.....Penna. Bldg., Phila.
Insurance Co. of North America,
3rd and Walnut sts., Phila.

Lumber.

Howard Ketcham.....3d and Girard ave., Phila.
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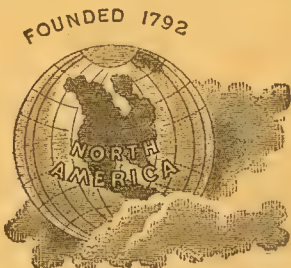
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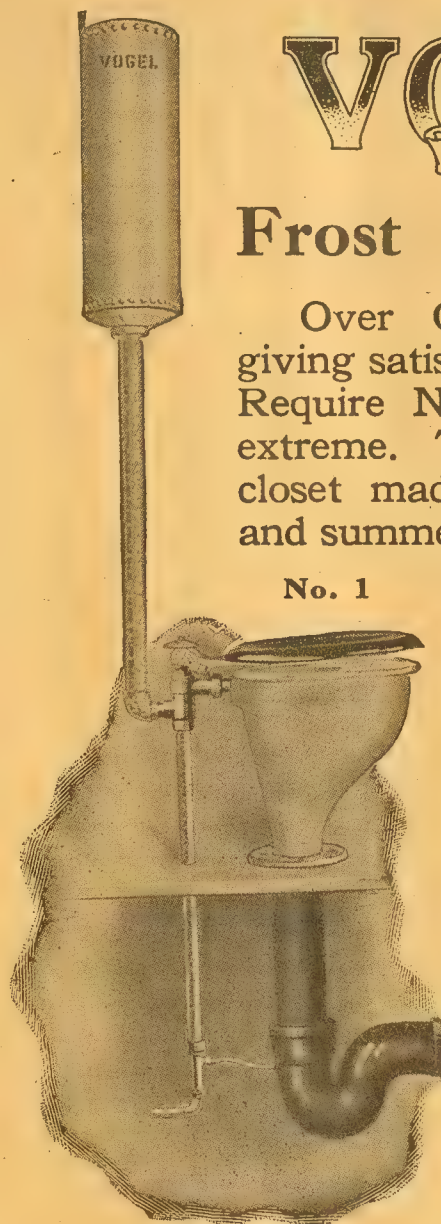
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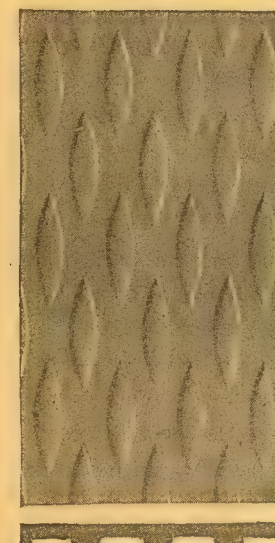
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August 1, 1917

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CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

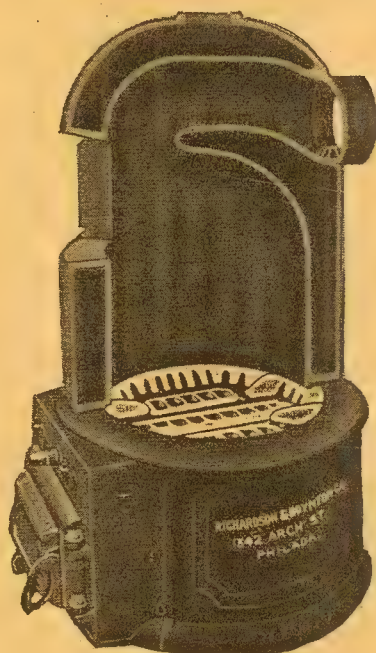
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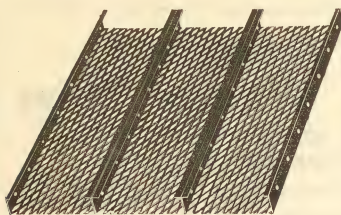
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		Cinder Concrete	53.4		11528"			1 1/2"				
No. 2 Slag Concrete	49	Steel	.1275	.00239	9646"	55.6	173.1	88.7	3 3/4"	7 3/4"	3 3/4"	3 3/4"
		Slag Concrete	53.4		19207"			1 1/2"				
No. 3 Pebble Concrete	49	Steel	.1275	.00239	9646"	48.1	166.6	87.9	3 3/4"	7 3/4"	3 3/4"	3 3/4"
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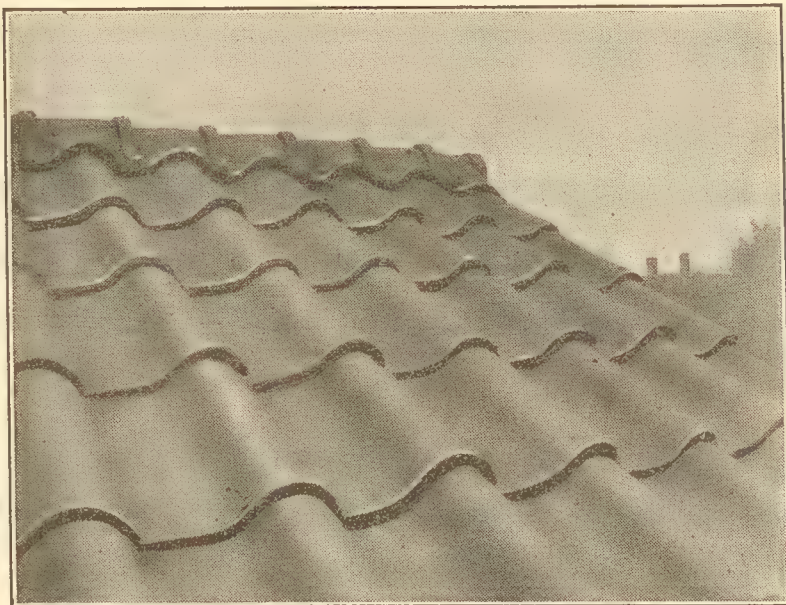


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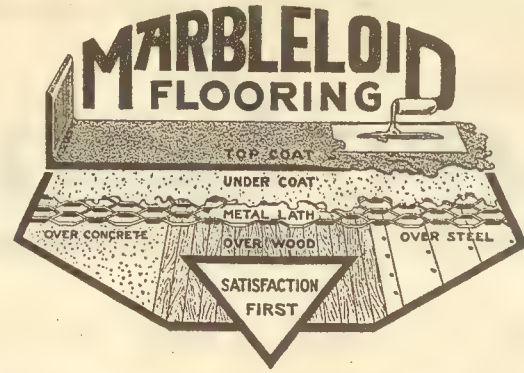
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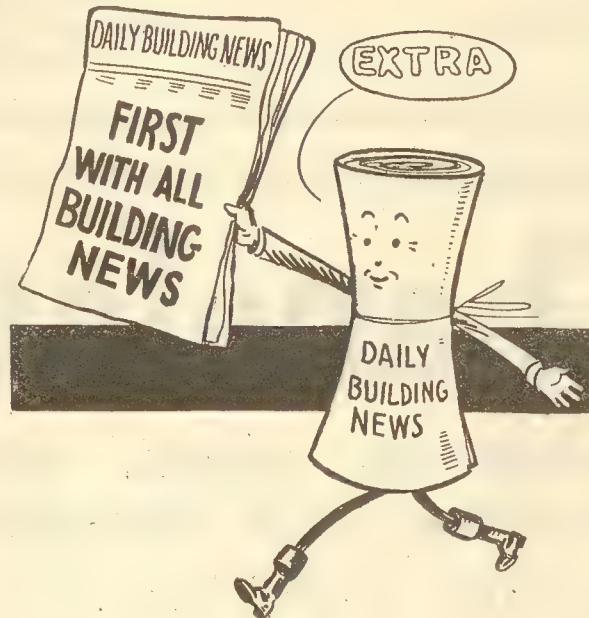
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Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII

Number 31

PHILADELPHIA

August 1, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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As The Editor Sees It



AS the result of conditions growing out of the war many building firms show a disposition to abandon the system of competitive bidding. In many cases this course is largely dictated by ordinary commercial prudence, the fluctuations in the prices of materials and labor and the difficulties about deliveries being such that the general contractor feels a natural hesitancy about placing himself at the mercy of his sub-bidders. The system favored, under existing conditions, is what is known as the percentage system, an arrangement whereunder the owner agrees to pay the general contractor on a basis of the actual cost of labor and materials plus a fixed percentage ample enough to take care of overhead, supervision and profit. In a recent number of *The National Builder*, Mr. G. D. Crain, Jr., discusses the percentage system with a clearness that brings its most salient characteristics within the range of the understanding of the lay reader.

* * *

THE extent to which the percentage system of handling building contracts is being used, especially on smaller jobs, such as residences," writes Mr. Crain, "is indicated by the fact that one of the leading building concerns of a southern city reports that over 90 per cent. of its work is now being done on that basis.

"An interesting discussion of the mer-

its of the plan is contained in a letter sent out by the company to its customers, in which the following language appears:

"We all agree that what the average person wants when making a purchase is to get his money's worth. He is willing that the seller should have a legitimate profit over and above his cost of material and labor and expense of conducting business. We want you to get acquainted with our method of building.

"Building, like other lines, has undergone changes in recent years. Formerly competition was so keen that many builders, in order to get work, simply neglected the matter of overhead, and undertook work that caused them losses, and then wondered why they made no better progress. We have gotten away from that and are following largely the cost-plus-percentage method to the satisfaction of a large number of our clients. The fact of the matter is that at present over 90 per cent. of our large volume of work is being done on this plan.

"By this method we guarantee our figures and you have the advantage in the first place of knowing the maximum amount that you will have to invest, and then of enjoying the anticipation of a possible saving, as in nearly every case we have effected one, ranging all the way from 5 to 20 per cent."

THE system, as indicated, involves taking the work on a basis of the cost-plus-percentage, which includes overhead, supervision and profit. The amount of the margin varies, but 15 per cent. is about the average at which most jobs of this kind are handled. The maximum figure which is named on the job is usually the architect's estimate; and while one possible advantage of the percentage system, from the standpoint of the builder, is that he is protected in case of unusually expensive features unexpectedly developing, the company above referred to has found that the estimate is ordinarily sufficiently liberal to enable it to be used as a maximum basis on which to figure the work.

"The defects of the system of competitive bidding are obvious. The man who knows least about the cost of doing the work is often the successful bidder—for this reason. The percentage system enables the owner to discriminate and to select the concern which has earned a reputation for good work and reliability, as he is then protected from excessive costs by the arrangement described. In other words, a premium is put on good work, rather than merely on the ability to bid low.

* * *

THE average owner is willing that the contractor make a fair profit on his work; and it is also plain that if a contractor sees that he is likely

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to lose money on a job he will be tempted to 'cut the corners' wherever he can for the sake of making his net loss as low as possible. This does not always happen, of course; for many concerns would rather lose money on a piece of work than risk losing the good-will of the customer. Nevertheless, the temptation to slight the quality, when it is found that a bid which is too low to cover the cost has been made, is present, and it doubtless has its effect in a good many cases.

"On the other hand, the very fact that the wise contractor appreciates the risk involved in bidding, since it is never possible to anticipate every feature which may arise, means that a larger margin must be allowed to take care of the unknown quantities than would be necessary if every point were covered by the bid. The contractor who would be willing to make 15 per cent. 'for sure' on every job will probably allow 25 per cent. in bidding in order to take care of the unexpected difficulties that may arise, and also to take care of other jobs where the net had been considerably below the expected profit."

* * *

GYPSUM has attained a remarkable growth in popularity, as an important medium in building construction within the past few years. The Federal Government reports that nearly half a million tons of unclaimed gypsum is sold annually, "the bulk of it being used for retarder in Portland cement."

"Calcined gypsum," to quote the government's latest report, "amounting to about a million and a half tons annually is used as wall plaster. This use, and the qualities of the plaster, such as hardness, quick set, fire resistance and poor conductivity of heat and cold, are so well known that further discussion will not be given here. The making of gypsum board, tile and screed is the newest branch of the industry and has not yet attained any considerable proportions; at least, the total value of the annual production of this material is probably less than \$200,000. The statistical cards sent out by the Geological Survey do not ask specifically for reports on these products. Nevertheless, the reports for 1915 show that they were made at twelve plants in that year."

"Gypsum plaster boards are of various types, mainly consisting of gypsum mixed with fibrous binding material to give strength and toughness for effective nailing. A type of plaster board in common use consists of four alternate layers of wool felt, with three intermediate layers of gypsum. Other boards contain but two layers of felt, with a gypsum layer between. In order to meet the joint and stud facing of standard construction, plaster boards are

usually 32 by 36 inches (8 square feet) and are made one-fourth, three-eighths and one-half inch in thickness. The wool felt binding material forming the outside surface of the plaster boards is an excellent bonding surface for gypsum plaster. Plaster boards are used for lathing in place of wood or metal lath on surfaces that are to be plastered, and where high fire-resistive construction is required. In fireproof construction the plaster boards are fastened to metal studs or hangers by metal clips. On surfaces not to be plastered plaster boards are used for deadening sound by being laid between rough and finished floors; as sheathing boards by being nailed to the studding and behind the clapboards; as outside stucco covering; as insulation and fire resistance under wood shingles, in air ducts and in dumb-waiter shafts.

* * *

GYPSUM floor screeds are used as a nailing sleeper for floors. They are 2 by 3 inches and 8 feet long and weigh 2 pounds per linear foot. They do not rot or burn.

"Gypsum tile is made for partitions, floors, roofs and furring. Partition tile, solid or hollow, is 12 by 30 inches wide and 2 to 8 inches thick. These tiles, laid with gypsum plaster, are used in the highest type of fireproof building for dividing and corridor partitions, in elevator and stairway inclosure and in dumbwaiter shafts; they are light in weight, can be laid very rapidly, can be cut with a handsaw, and when plastered with gypsum make partitions of high heat-resistive value.

"Gypsum floor tile is a hollow box or dome of reinforced gypsum plaster, used as a filler between concrete joist construction. These tiles are 19 inches wide and 24 inches long, 7, 9, 11 and 13 inches high, and weigh 24, 27, 30 and 33 pounds per linear foot; they afford a saving in dead weight of construction and provide a smooth, all-gypsum ceiling to plaster upon.

* * *

GYPSUM roof tile is made 24 and 30 inches long, 12 inches wide, and 3 inches thick, and is laid between supporting 'T' irons. Larger gypsum roof tile, reinforced and made of especially hard gypsum, are made to span 4 feet and are laid upon the main roof purlins. These tile are 4½ inches thick, 18 inches wide, and of biscuit pattern. All these roof tiles weigh 13 pounds per square foot and are light and noncondensing. The low heat conductivity of gypsum is an especially valuable quality in a roof deck. Slate or any other roof covering can be nailed or otherwise secured to the smooth decks of gypsum roof tile.

"Gypsum furring tile are of the same character and general dimensions as the

partition tile, are hollow or solid, and are 2 inches thick. They are fastened to the wall by nailing and are used for sound absorption and sound-proofing, fire protection, insulation from heat or cold and damp proofing."

Other uses for calcined gypsum which have been in practice longer than those just described, are in making statuary and other art work, relief maps and models, molds for rubber stamps, molds for pottery and terra cotta, in bedding plate glass for polishing, in foundry molds for special castings, and in making surgical casts. Calcined gypsum enters into the composition of match heads, hat blocks, relief decorations for walls and ceilings, asbestos pipe covering, and is used for various other purposes.

* * *

AN interesting little sidelight on the advance which has taken place within four years in the cost of material and labor is contained in an item in the *San Francisco Architect and Engineer*. The item runs:

"Mr. August Kehrberger, one of the best known Salem, Oregon, contractors, has some interesting figures to show the increase in cost of construction for the past four years. Among his other investments Mr. Kehrberger has built for himself a number of houses for renting purposes. Each two years he has added a new house, using the same plans. The house built in 1913 cost \$1,800, that in 1915 \$2,075, while the one built in 1917 cost \$2,600."

* * *

THE same number of this bright Pacific Coast magazine contains an editorial article, captioned "Don't Lose Your Head," that is very timely and appropriate as matters now stand. It is so timely and so very apropos that I am going to quote it.

"In every crowd there is always somebody who is ready to yell 'fire!'" runs the article. "Then the panic starts. When order is restored, everybody wonders why everybody else lost his head.

"When President Wilson issued his war proclamation and called upon the people of the United States to conserve their resources for the struggle ahead, he did not mean that they should stop spending money. He did mean that useless expenditures should stop, but that was nothing new. Business consists of buying and selling. Certain kinds of business are fundamental. The building business is one of them.

"There need be no curtailment in building or road construction. Let both public and private useful building construction proceed. Production and handling of building materials and public and private construction work are fundamental industries of the country.

Any tendency to suspend or postpone building projects is inconsistent with maintaining our prosperity. The country is prosperous. Building investors should not hesitate to go ahead with their plans. Railroads should spare no effort to supply the building industry with the cars needed to transport materials. Government, State, county and municipal authorities should encourage the continuance of all kinds of building. Road and street improvements in particular should go on unabated. Bad roads and streets are factors of first importance in the present high cost of foodstuffs. Never before was the improvement of highways so essential.

"The lumber, brick, cement, lime, sand, gravel, stone and other building materials industries are basic. Neither Government regulations nor railroad re-

strictions should be imposed unnecessarily to interfere with them. If any action is taken which results in the prostration of so fundamentally important industries, there is real danger of a surplus of unemployed labor, a surplus of railroad cars and a crippling of business that will seriously embarrass the Government in financing the war."

* * *

ON another page of this number of THE GUIDE will be found the text of the new ordinance passed by Councils and approved by the Mayor governing the occupation of highways with construction material. This ordinance is, as a careful reading of it will disclose, much more comprehensive than any preceding regulation dealing with the same subject and should be of very great interest to local builders.

BUILDING MATERIAL ON THE PUBLIC HIGHWAY.

The New Ordinance Relating to the Storing of Building Material on the Streets, Pending Use, Drastic and Far-reaching—Method of Obtaining Permits—Limit Placed Upon Street Area Which May Be Utilized. Shelter Platforms, Lamps and Signals Provided For.

A new ordinance establishing rules for the use of the city streets or any portion thereof for the temporary storage of building material has been passed by Select and Common Council, and was signed by Mayor Thomas B. Smith on the 10th day of July. The ordinance, in full, is here given:

AN ORDINANCE TO PROVIDE FOR THE granting and regulating of permits for the occupation of highways with construction materials, fixing the charges therefor, and providing penalties for violation thereof.

Section 1. The Select and Common Councils of the City of Philadelphia do ordain, Application for, and Issuance and Exhibition of Permit: That when any person, firm or corporation shall desire to occupy a portion of the public highways within the City of Philadelphia for the temporary storage thereon of construction materials to be used in connection with the construction or repair of any building, footway pavement or other structure, the prospective permittee shall make a formal application to the Bureau of Highways, indicating the nature and extent of such contemplated construction or repair work, for the accommodation of which it is desired to so occupy the highways, and thereupon the Chief of the Bureau of Highways may issue a permit to occupy such a part of any public highway as indicated in Section 2 of this ordinance for the purpose aforesaid, for such period of time as he shall deem necessary and reasonable. For the information of the representatives of the Bureau of Highways, the Bureau of Police, and the public, the permit notice card, must be displayed by

the permittee in a conspicuous location on the occupied highway at all times during the period of such occupancy.

Sec. 2. Storage of Construction Materials: That construction materials authorized by permit to be temporarily stored on the highways shall not exceed in extent of occupied area the dimensions of the frontage of the premises about to be built upon or repaired (except that when no objection is made by the adjoining property owners and the space is not to be used for storage of materials other than that to be used in reconstruction, the permittee shall be permitted to occupy an additional thirty (30) feet on each side of the building frontage for which the permit is granted), and not exceeding 9 feet in breadth, 13 feet in height and 1 foot inside the curb line, with a gutter left along the curb 15 inches in width and 12 inches in height, with a clean-cut hole 12 by 18 inches in size, placed every 25 feet of length: Provided, That on narrow highways a sufficient passageway shall at all times be left unencumbered between the outside limit of the stored materials and the opposite curb for the free passage of vehicles. And, provided, That no materials, structures or other obstructions shall be placed within 5 feet of any fire hydrant or highway intersection or crossing, or within 2½ feet of any railway track, or across any footway. And, provided, That such permit shall not be construed to authorize the permittee to store any old materials, rubbish or dirt on said highways, except such as are to be re-employed in the previously indicated construction or repair operations: And, provided, That no per-

mit shall be issued to occupy any highway with building construction materials in that portion of the City between and including Spring Garden street, Fifth street, Green street, Delaware River, South street, Schuylkill River and on Broad street, between Lehigh avenue and Washington avenue.

Sec. 3. Footway Shelter Platforms: That during the erection or repair of any building, it shall be the duty of the permittee to cause to be placed a wooden footway shelter platform, which shall extend along the whole frontage of such building about to be erected or repaired, and which shall project from 2½ feet from the wall thereof to the curb or outer line of the footway pavement, and to be at least 10 feet in height from the curb or surface of the footway pavement, and shall be of sufficient strength to intercept the falling of bricks, stone, iron, lumber or other building materials or debris. Footway shelter platforms must be in accordance with the drawings and specifications as approved by the Bureau of Building Inspection, and on file in the Bureau of Highways, and must be painted in oil a dark green. Advertising signs will not be permitted on footway shelter platforms, except those containing the names of the general contractor and the future tenant, and these signs shall be erected in conformity with the standard size and design approved by the Art Jury (sign to be painted green and white and not larger than 6 feet by 4 feet). In no case will any other signs be permitted, nor will the approved signs be allowed to extend below the roof deck of the shelter platform. The Chief of the Bureau of Highways shall have authority to grant permission for the temporary closing or enclosing of a footway where he may deem this a safeguard during the demolition, construction or repairing of any building.

Sec. 4. Danger Lamps and Signals: That all persons or agencies temporarily storing construction materials of any kind, or any other obstructions, or making excavations, upon or across any public highway, shall place and maintain thereon, from sunset to sunrise, a lighted red lamp, and whenever such obstruction or excavations exceed 10 feet in length or breadth, one such lamp shall be placed upon each end, thereof, and at such other locations and intervals as may be necessary to properly warn and safeguard traffic.

Sec. 5. Mortar Beds and Material Heaters: That no person or agency shall place any lime or cement mortar, or mixtures, or mortar or concrete beds, or lime boxes, or shall make any fire for the melting of solder, or for the heating of roofing material, or for any other purpose, on paved public highways: Provided, however, That mortar or concrete may be mixed in boxes, the bottoms of which must be tight, tongued and grooved boards, placed on substantial bearers, leaving an air space of at least 4 inches, and protected on all sides by a margin of 2-inch boards extending not less than 6 inches in height above the floor surface.

Sec. 6. Conditions of Occupied Highways:

That the permittee shall store the materials occupying the highway in such a manner as to prevent their creating dangerous conditions or a nuisance or encroaching outside of the limits authorized by the permit. The permittee shall also maintain both the occupied area and the areas adjacent thereto in a cleanly condition satisfactory to the Chief of the Bureau of Highways, and shall promptly remove all dirt, sweepings, waste materials, rubbish or other debris that may be produced or accumulate, and, if necessary, sprinkle the occupied area and that adjacent thereto as often as may be necessary to eliminate any dust that may result from the exercise of the privileges granted by the permit. All offenders against the provisions of this ordinance will be prosecuted in accordance with the provisions herein and when necessary the Chief of the Bureau shall remove at the expense of the permittee or owner of the abutting property any construction materials, dirt, sweepings, waste materials, debris, or rubbish arising from the exercise of the permit privileges, or of any structure, fixture or obstruction found on any of the highways of the City of Philadelphia contrary to the provisions and requirements of this ordinance.

Sec. 7. Permit Charges: That at any time when the said permit shall expire, if it shall appear necessary that a further use of the highways is required, for the purposes for which said permit was originally granted, the Chief of the Bureau of Highways shall, upon the original application made, extend such permit from time to time, and upon the original issue and extension of every permit the applicant shall pay to the Receiver of Taxes for the use of the City of Philadelphia, the following sums:

Unpaved Streets: For permits to occupy unpaved highways with construction materials, the following charges shall be made monthly: For one building of 40 foot or less frontage, two (2) dollars per month; for additional frontage of the same building the sum of one (1) dollar per month, for each additional 40 feet or fraction thereof; for more than one building when immediately adjoining the first building or buildings, a charge of twenty-five (25) cents per month for each additional building.

The following charges may, at the option of the builder, be made for the entire term of the building operation:

For one building of 40 foot or less frontage, the sum of four (4) dollars for the entire term of the operation; for additional frontage of the same building, the sum of two (2) dollars for each 40 feet or fraction thereof for the entire term of the operation; for more than one building, when immediately adjoining the first building or buildings, a charge of fifty (50) cents for each additional building for the entire term of the operation.

The maximum charge for an entire operation on one side of the street and within the ordinary city block, between two main highways, a charge of six (6) dollars for the entire term of the operation.

The maximum charge for an entire operation on both sides of the street and within the ordinary city block between two main highways, a charge of twelve (12) dollars for the entire term of the operation.

Paved Streets: For permits to occupy paved highways with construction materials, the following charges shall be made monthly: Three (3) dollars per month for the first building having a frontage of forty (40) feet or less, and two (2) dollars for each additional building, when immediately adjoining the first building or buildings, having a frontage of forty (40) feet or less; for the second and succeeding months, two (2) dollars per month for the first building and fifty (50) cents per month for each additional building when immediately adjoining the first building or buildings: Provided, That if the operation does not exceed one year in duration the total charge to be made against any builder for all operations on one side of an ordinary city block between two main highways shall in no case exceed twenty-five (25) dollars, and if both sides of the block are occupied, shall not exceed forty-five (45) dollars. If, however, the year is exceeded, the maximum charge to be made against any builder in a city block shall be three (3) dollars per month if one side of the street is occupied, and six (6) dollars per month if both sides of the street are occupied, for each month in excess of the year.

Shelter Platforms: In the section of the City where building material is prohibited upon the streets, and footway shelter platforms are required, the following charges will be made per month:

\$2.00 per month for any frontage less than 40 feet.

\$3.00 per month for any frontage of 40 feet and less than 60 feet.

\$4.00 per month for any frontage of 60 feet and less than 80 feet.

\$5.00 per month for any frontage of 80 feet and less than 100 feet.

In other words, one (1) dollar additional for each and every 20 feet additional building frontage.

Sec. 8. Revocation of Permits: That the Chief of the Bureau of Highways shall have authority and power to immediately revoke or annul any permit when, in his opinion, the privileges of the permit have been abused or the provisions and requirements of this ordinance violated, or when any construction or repair work is so far advanced as to render any further occupancy of the highways unnecessary.

Sec. 9. Violation of Ordinance: That if any person or agency shall occupy any part of the public highways in the City of Philadelphia with construction or other materials or obstructions without a permit as aforesaid, or shall so occupy the highways after such permit has expired, or if, having obtained such a permit, shall occupy said highways in any way, or for any purpose contrary to the provisions and intent of this ordinance, or shall otherwise violate the provisions of this or-

dinance, the permittee and the owner of the abutting property for the accommodation of which any highway shall have been used, or the permit shall have been issued, or either of them shall forfeit and pay the sum of ten (10) dollars per day for each any every day the violation exists, which shall be sued for and recovered in the manner as penalties for breach of ordinance are by law recoverable.

Sec. 10. All ordinances or parts of ordinances inconsistent herewith be and the same are hereby repealed.

Approved The Tenth day of July, A. D. 1917.

THOMAS B. SMITH,
Mayor of Philadelphia.

No. 625.

AKRON AND ERIE AHEAD.

The nine cities in Federal Reserve district No. 4 show an increase in building operations for April, 1917, compared with the same month a year ago of \$326,601, but a decrease of 438 in number of building permits. The credit for pulling the nine cities out of the hole is due to Akron with 81.3 per cent, and Erie with 143.9 per cent, increase. The other seven cities ranged from Toledo with 1 per cent. to Columbus with 54 per cent. decreases. Cleveland's decrease was 6.7 per cent., or in money \$163,555. Cleveland's May showing involved an increase of \$608,565, which overcomes the April deficiency several times. The April total for the nine cities was \$9,969,549; number of permits, 5,308. The cities are Akron, Cincinnati, Cleveland, Columbus, Dayton, Toledo and Youngstown, Ohio, and Erie and Pittsburgh, Pa.

"The decrease in number of permits and valuations," the report says, "except two, as indicated in the table, is due to the late spring."

On the subject of industries the report says that: "Practically all plants and factories report 'business as usual.' In the iron and steel trade, the demand and prices are maintained at the highest point in all time. Lack of available transportation, both for raw materials and finished products (although this condition is no wimproved), is curtailing operations to some extent, and in some localities inadequacy of labor has a detrimental effect. Improvements are noted in methods of production, which offset largely the labor shortage, and the reports indicate proposed plant extensions, especially for plates for shipbuilding."—"Ohio Architect."

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Tar Extractor House, Richmond and Tioga streets. Architect, private plans. Owners, U. G. I. Co., Fred G. Thorn, Jr., Eng. of Const., Broad and Arch streets, Philadelphia. Brick, 1 story, 27x20 feet, slate roof, concrete floors. Owners taking bids, due as soon as possible. F. L. Hoover & Sons, 1023 Cherry street, and Charles Gilpin, Harrison Building, are figuring.

Storage Building and alt. to Buildings (3), 114-120 North Front street. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owners, George D. Wetherill & Co., on premises. Brick, steel and concrete, 4 stories, 79x43 feet, slag roof, cement, maple and pine floors (steam heating, electric work, plumbing, elevator, sprinklers and mechanical plant reserved by owners), rolled steel sash, hollow metal sash and skylights, fire doors, metal lath, Belgian block paving, metal ceilings. Architects taking bids, due August 1st at noon. H. H. Wehmeyer, 1004 West Lehigh avenue; R. C. Ballinger & Co., 218 North Thirtieth street; Wm. R. Dougherty, 1610 Sansom street, and Wm. Meyer Co., 216 Quarry street, are figuring.

Store (alt.), southeast corner of Twentieth and Green streets. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Estate of George Abbott, care of architects. Brick and steel, alteration to first floor (plumbing, heating, electric work and fixtures, papering reserved), carpenter and mill work, metal bulks and metal lath. Architects taking bids, due August 2nd at noon. James H. Wells, Otis Building; F. A. Havens Co., 845 North Nineteenth street; T. C. Trafford, 1713 Sansom street; John E. Kearney, 327 North Sixty-third street; A. L. Fretz & Son, Heed Building, and H. E. Grau Co., 1707 Sansom street, are figuring.

Sales and Service Building (alt.), 672-74 N. Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Samuel Gorson, 238 North Broad st., Philadelphia. Brick and terra cotta or composition stone, 3 stories, 32x88 feet, composition roof (elevator and lighting fixtures reserved), steam heating, electric lighting, tile, marble and terrazzo work, hollow metal skylights, fire doors, metal bulks, cement floors, metal lath, roof ventilators, metal window guards, metal ceilings. Architect taking bids, due August 7th at 10 A. M. Lam Building Co., 1001 Wood street; Freund Const. Co., Bulletin Building; Smith-Hardican Co., 1606 Cherry street; Monaghan & Losse, Inc., 3016 Chestnut street; A. Bottoms & Sons Co., 3611 Walnut street, and D. Henwood, 1500 Wood street; Stacy Reeves & Sons, 2011 Market street, are figuring.

Engine Room, Second street and Erie avenue, Philadelphia. Architect, private plans. Owners, Thomas Potter Sons Co., Inc., Second and Erie avenue, Philadelphia. Brick and glazed tile, 1 story, 64x26 feet, slag roof, ce-

ment floors, rolled steel sash. Owners taking bids. George A. Fuller Co., Widener Building; H. H. Wehmeyer, 1004 Lehigh avenue, and Charles McCaul Co., 1713 Sansom street, are figuring.

Provost's Residence (alt. and add.), 4037 Pine street, Philadelphia, \$75,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, University of Pennsylvania, 400 Chestnut street, Philadelphia. Brick, limestone trimmings, 3 stories, slate and slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Revised plans in progress.

Factory (add.), northwest corner of Thirteenth and Washington avenue. Architect not selected. Owners, A. B. Kirschbaum Co., Broad and Carpenter streets. Reinforced concrete and brick. Details undecided. Work contemplated.

Garbage Crematory, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, 2 stories, 17x40 feet, slag roof; plumbing, electric lighting, concrete floors, iron stairs, waterproofing. Owners have received bids.

Bank Building, northeast corner of Fifth and Tabor Road, \$75,000. Architect not selected. Owner, Olney Bank, on premises. Work contemplated. Details not decided.

Residences (40), Deveraux street, Frankford, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owners, Wyoming Const. Co., 1414 South Penn Square, Philadelphia. Brick, 2 stories, 16x30 feet, slag and slate roof, hardwood floors, steam heating, combination lighting, tile work. Owners taking sub-bids.

Store Building (alt.), 30-34 South Sixth street, Philadelphia. Architect, Wm. Woodburn Potter, 1710 Real Estate Trust Building, Philadelphia. Owners, L. H. & J. H. Warren, care of architect. Brick, 5 stories, consists of concrete, steel and timber reinforcing, plastering, carpenter work, painting. Architect has received bids.

Hospital (alt. and add.), Nineteenth and Spring Garden streets, Philadelphia. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street. Owners, Philadelphia Osteopathic Hospital, care of Dr. J. Ivan Dufur, Pennsylvania Building. Brick and concrete, brownstone trim, 3 stories, 50x110 feet, slag roof, concrete floors (steam heating and elevator reserved, electric lighting. Architects taking bids, due August 4th at noon. Cramp & Co., Denckla Building; John N. Gill & Co., Otis Building; F. E. Wallace, 1220 Chancellor street; F. A. Havens & Co., 845 North Nineteenth street; Wm. R. Dougherty, 1610 Sansom street, and Stacy Reeves & Sons, 2011 Market street, are figuring.

Residences (6), Fifth and Fisher's avenue, Philadelphia. Architect, private plans. Own-

er, Wm. H. Ashton, 5600 North Mascher st., Philadelphia. Brick, 2 stories, 15x30 feet, slag roof, hot water heating, electric lighting, pine and hardwood floors. Owner sub-letting.

Church and Sunday School, northeast corner of Second and Clearfield streets, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Palethorp Memorial Presbyterian Church, care of Wm. H. Scott, 1211 Clover street. Stone, 1 story and basement and gallery, 70x113 feet, slate roof, steam heat, electric light, cement and pine floors (leaded glass; lighting fixtures and furniture reserved by owners). Owners taking bids, due August 15th. F. L. Hoover & Sons, 1023 Cherry street; P. E. Wallace, 1220 Chancellor street; T. C. Trafford, 1613 Sansom street; Stewart Bros., 2526 North Orkney street, and George Bond, Sixty-sixth avenue and Thirteenth street, are figuring.

Sales and Service Building, 1315-17 Vine street, Philadelphia. Architect, J. Ethan Feinstein, Hale Building, Philadelphia. Owners, Auto Radiator Co., on premises. Brick and steel, 2 stories, 30x80 feet, slag roof, pine floors, steam heating, electric lighting, hollow metal skylights, metal lath. Owners taking bids, due as soon as possible. D. Henwood, 1509 Wood street; Philip Saver, 718 Snyder avenue; Frank Lucchi, 1603 Ellsworth street and Max J. Benamy, 3042 York street, are figuring.

Storage House, Paul street, Frankford, Philadelphia. Architects, Stearns, Woodnutt & Schmolz, Stephen Girard Building, Philadelphia. Owners, Keystone Emery Mills, 4325 Paul street, Frankford, Philadelphia. Brick and steel, terra cotta trim, 2 stories, 100x36 feet, slag roof, cement and maple floors, rolled steel sash, hollow metal skylights, fire doors (plumbing, heating, electric work, sprinklers, paving, fencing, wire window guards and elevator reserved). Architects have received bids.

Garage, 536-38 North Fifty-second street, Philadelphia. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owner, Joseph Schroeder, 540 North Fifty-second street, Philadelphia. Brick and steel, 1 story, 43x80 feet and 75x70 feet, slag roof, cement floors (electric work, heating and gasoline storage system reserved), hollow metal skylights, flush bulks, waterproofing. Architect has received bids.

Residence (alt. and add.), 2409 Fairmount avenue, \$1,800. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Dr. B. A. McDermott, on premises. Brick, 3 and 4 stories, second story addition, 12x21 feet, slag roof, hardwood floors, hot air heating, electric lighting, tile work. Plans completed. Owner ready for bids.

Residence (alt. into Store and Apartment), Twenty-third and Tioga streets. Architect,

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private plans. Owner, Harry Chevrin, 2100 Hunting Park avenue, Philadelphia. Brick, 3 stories, slag roof, pine floors, plumbing, hot water or steam heating, electric lighting, bulk windows, tile work, metal lath. Owner has received bids.

Store, Apartment and Garage (alt. and add.), 3943 North Broad street, Philadelphia. Architect, private plans. Owners, Henderson & Scott, 3921 North Broad street, Philadelphia. Brick, 1 story, 101x20 feet, heating and electric work reserved by owners, partitions, stair work, new front, slag roof, hardwood floors. Mutual Eng. Co., Franklin Building, will take sub-bids.

Laborers' Bungalows (3 types), McAfee, N. J. Architects, P. P. & W. K. Benedict, South Bethlehem, Pa. Owners, Bethlehem Steel Co., South Bethlehem, Pa. Frame and clapboard, 1 story, 36x36 feet, 2 stories, 26x32 feet, and 2 stories, 53x16 feet, shingle roofs, hot air heating, plumbing, pine floors. Owners have received bids.

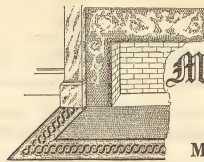
Residence (repairs), 1417 Sellers street, Philadelphia. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner's name withheld. Frame, 2 stories, porch addition, hot air heating, electric lighting, tin roof, hardwood floors, plumbing. Plans about completed. Architect ready for sub-bids August 1st.

Factory (add.), Twenty-fourth and Locust streets, Philadelphia. Architects, Wm. Steel & Sons Co., 34 South Fifteenth street, Philadelphia. Owners, Lanston Monotype Machine Co., on premises. Reinforced concrete and brick, 5 stories and basement, 50x125 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash, fire doors, ornamental iron work. Builders, Wm. Steele & Sons Co., 34 South Fifteenth street, taking sub-bids, due August 2nd.

Factory Building, southeast corner of Sixth and Oxford streets, Philadelphia. Architect not selected. Owners, Zabel Bros., Randolph and Columbia avenue. Brick, 4 or 5 stories, 60x150 feet. Work contemplated.

Garage, 3322-28 North Broad street, Philadelphia. Architect not selected. Owner, Chas. Goldman, 731 Walnut street. Brick, 1 story, size of lot 100x200 feet. Work contemplated.

Garage, Philadelphia Depot, Peltz street and



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Schuylkill avenue, Philadelphia. Architect, C. M. Boller, Philadelphia Depot, Philadelphia. Owners, U. S. Government, Schuylkill Arsenal, Peltz street and Schuylkill avenue. Brick, 1 story, 102x52 feet and 1x28 feet, asphalt roof, cement and pine floors (heating, lighting and gasoline storage system reserved), hollow metal skylights, roof ventilators. Owners have received bids.

Loft Building, Philadelphia. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owner's name withheld. Reinforced concrete and brick, 10 stories, 73x112 feet. Plans in progress.

Warehouse (add.), Broad and Washington avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, P. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 7 stories, 92x131 feet, slag roof, concrete floors, hollow tile, rolled steel sash, safety treads, fire doors, waterproofing, dampproofing (heating, electric work and elevators reserved). Plans completed. Owners ready for bids in a few days.

Marine Barracks, League Island, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, P. R. Harris, Chief, Navy Department, Washington, D. C. Brick, 3 stories, 286x52 feet, 3 wings 40x52 feet, slate roof, steam heating, electric lighting, reinforced concrete floors, hollow tile, safety treads, waterproofing, dampproofing. Plans about completed. Owners will receive bids in three weeks.

Storage and Unloading Platform, Parkway Building, Philadelphia. Architect, private plans. Owners, Bell Telephone Co. of Pennsylvania, Seventeenth and Arch streets. Reinforced concrete, 45x8x13 feet, pine floors, electric lighting. Owners taking bids, due August 2nd. E. R. Hall, 34 South Seventeenth street, is figuring.

Freight Station, Office and Sheds, Abbottsford avenue, near King street, Midvale station, Philadelphia. Architects, Maintenance of Way Department, Broad Street Station, Philadel-

phia. Owners, Pennsylvania Railroad Co., about 501, Broad Street Station, Philadelphia. Brick, steel, concrete foundations, 1 story, 358 feet and 160x14 feet, asphalt roof, steam heating, electric lighting, concrete and spruce floors, fire doors, safety treads, ornamental iron work. Owners taking bids, due August 6th. Graham Campion Co., Otis Building; Metzger & Fisher, John N. Gill & Co., and James H. Wells, all of the Otis Building; T. C. Traford, 1613 Sansom street; H. E. Grau Co., 1707 Sansom street; Lincoln H. Smith, and A. L. Carhart, both in the Hale Building; Brann & Stuart, Commercial Trust Building; Armstrong & Latta, Land Title Building; E. E. Hollenback, Inc., 1804 Brandywine street; Chas. McCaul C., 1713 Sansom street; Mitchell Bros., 2125 Race street; Driscoll Co., Stock Exchange Building; John V. Speth & Co., 1714 Sansom street; F. A. Havens & Co., 845 N. Nineteenth street; Monaghan & Losse, Inc., 3016 Chestnut street; Abel Bottoms & Sons Co., 3611 Walnut street; Wark-Yardley Co., 1737 Filbert street; Robbins Contr. Co., Lafayette Building; Irwin & Leighton, 126 North Twelfth street; Roydhouse-Arey Co., 112 N. Broad street; J. Sims Wilson Co., 1125 Brown street; Chas. Wm. Doll Co., 201 North Broad street, and Specht & Sperry, Heed Building, all of Philadelphia, are figuring.

Miscellaneous and Shop Building, Girard Point, Philadelphia. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and stucco, 1 story, 50x90 feet, slag roof, steam heating, electric lighting, marble work, rolled steel sash, concrete and pine floors, metal lath, roof ventilators, dampproofing. Plans completed. Owners ready for bids.

Office, Chestnut Hill, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, George C. Thomas, Jr., Sunset avenue, Chestnut Hill, Philadelphia. Stone, 1 story, 25x40 feet, slate roof, hot water heating, electric lighting, metal lath. Architects taking bids, due August 2nd. Wm. J. Gruhler Co., 219 East High street, is figuring.

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No other roofing is guaranteed in this way because no other manufacturer, evidently, cares to take the risk of having to repair and replace his roofs if they fail.

The reasons for their long life are:

First,

because they are constructed of Barrett Specification Pitch and Felt, the greatest waterproofing materials known.

Second,

because a greater amount of this waterproofing is used in Barrett Specification Roofs than in any other kind of roof-covering, and the amount of waterproofing material in the roof largely determines its life.

Third,

because under the 20-Year Guaranty Plan the roof must be constructed under the supervision of our inspectors, and we know, therefore, it will be constructed right.

That is why these roofs last twenty years and more; that is why we can afford to give a Surety Bond Guaranty with every one.

The 20-Year Guaranty Bond

The 20-Year Guaranty is now given on all Barrett Specification Roofs of fifty squares and over in all towns in the United States and Canada with a population of 25,000 and over, and in smaller places where our Inspection Service is available.

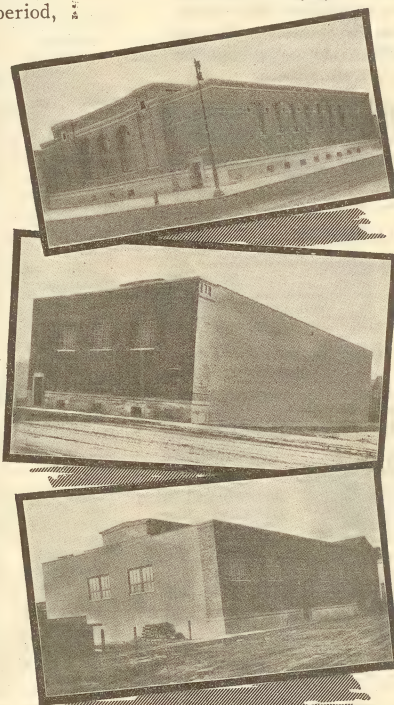
Our only requirements are that The Barrett Specification dated May 1, 1916, shall be strictly followed and that the roofing contractor shall be approved by us.

Copy of The Barrett 20-Year Specification and further information promptly furnished upon request.

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Upper view: Commonwealth Edison Sub-Station, Chicago, Ill. Von Holst & Fyfe, Architects; McCarty Bros., Gen. Contr's; Standard Roofing Co., Roofers.

Middle view: Commonwealth Edison Sub-Station, Chicago. Von Holst & Fyfe, Architects; Calahan Mandl, Gen. Contr'r; Standard Roofing Co., Roofers.

Lower view: Commonwealth Edison Sub-Station, Chicago. Von Holst & Fyfe, Architects; Thos. Gage & Sons, Gen. Contr's; M. W. Powell Co., Roofers.

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Apartment House, Redfield and Chestnut streets, Philadelphia. Architect, Arnold Eberhard, Crozer Building, Philadelphia. Owner, Charles A. Mory, 424 North Fortieth street, Philadelphia. Brick, terra cotta trim, 4 stor

ies, 37x76 feet, slag roof, steam heating, electric lighting, tile work hardwood floors, fire doors, metal lath, roof ventilators. Architect will sub-let.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Naphtalene House, Bermuda and Margaretta streets, \$40,000. Architect, private plans. Owners, Barrett Manufacturing Co., Thirty-sixth and Gray's Ferry Road, Philadelphia. Brick and concrete, 1 story, 87x107 feet, slag roof, cement floors, rolled steel sash. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Factory, 2130 East Hazzard street, Philadelphia, \$14,000. Architect, private plans. Owners, Frederick Whitaker Co., 2140 East Hazzard street, Philadelphia. Brick, 2 stories, 40x70 feet, slag roof, cement and pine floors, steam heat, electric lighting. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Philadelphia.

Garage, Columbia avenue and Patton street, Philadelphia. Architect, private plans. Owners, Columbia Garage Co., care of builder. Brick, 1 story, 60x238 feet, irregular, slag roof, cement floors. Contract awarded to Jos. R. Smith & Co., 3102 Euclid avenue, Philadelphia.

Toilet and Wash Room, Third and Allegheny avenue, Philadelphia, \$3,500. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Bernstein Manufacturing Co., on premises. Brick, basement addition, 28x34 feet, steam heating, plumbing, cement floors, metal lath (electric work reserved by owners). Contract awarded to Daniel J. McNamee, 1621 North Fifteenth street, Philadelphia.

Factory, 144-64 East Allen street, Philadelphia, \$125,000. Architect, private plans. Owners, Gorgas-Pierie Manufacturing Co., 126 East Allen street, Philadelphia. Reinforced concrete and brick, 5 stories and basement, 155x75 feet, slag roof, steam heat, electric light, rolled steel sash, hollow metal skylights, fire doors, cement floors. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street, Philadelphia.

Club House, 2628 Richmond street, Philadelphia, \$12,000. Architect, John H. Raekie, 5725 Torresdale avenue. Owners, Polish Republican Club, care of W. C. Raczyński, 2624 Richmond street, Philadelphia. Brick, 2 stories, 18x71 feet, slag roof, pine and cement floors, hot water heating, electric lighting, tile work, metal ceilings (bar fixtures reserved). Contract awarded to Robt. J. Aikins, 1414

South Penn Square, Philadelphia.

Residence (alt.), 1415 North Broad street, Philadelphia, \$2,700. Architects, Magaziner & Potter, 603 Chestnut street, Philadelphia. Owner, Mrs. B. Gimbel, 914 North Broad street, Philadelphia. Consists of interior alterations (heating, lighting and hardwood floors reserved). Contract awarded to Hogg Const. Co., 1634 Sansom street, Philadelphia.

Office Building (add.), 229-24 Walnut street, Philadelphia, \$40,000. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owners, Charles E. Mather & Co., 226 Walnut street, Philadelphia. Reinforced concrete, brick and stone, 1 story and basement, 136x64 feet, asbestos roof, maple floors, rolled steel sash and hollow metal sash and skylights, hollow tile, metal lath and window guards, waterproofing and dampproofing, wire work, ornamental iron work. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Passenger Station (alt. and add.), Chestnut Hill, Philadelphia, \$27,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Consists of shelters and platforms (2), 1 story, 400 feet long, steel and frame, cement and asphalt floors, safety treads, ornamental iron work (cement and steel reserved). Contract awarded to Pringle Borthwick, 8018 Germantown avenue, Philadelphia.

Residence (alt. and add.), 1522 Locust street, Philadelphia. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Dr. M. W. Zimmerman, on premises. Brick, 2 story addition, 12x6 feet, tin roof, pine floors, hollow metal skylights (heating and electric work reserved). Contract awarded to Thos. C. Trafford, 1613 Sansom street, Philadelphia.

Subway Stations (6), various locations, contracts Nos. 103, 201, 202, 203, 204 and 104. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, care of Wm. S. Twining, Director, Bourse Building, Philadelphia. Excavating, heavy construction, underpinning, reinforced concrete, waterproofing, dampproofing, skylights, safety treads, iron stairs. Contract for 103 awarded to Keystone State Const. Co., Pennsylvania Build-

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DRAG SCRAPERS

ing, \$2,815,240. Contract for 201 awarded to Keystone State Const. Co., Pennsylvania Building, Philadelphia, \$1,575,760. Contract for 202 awarded to Smith, Hauser & McIsaac Co., Inc., 18 East Forty-first street, New York City, \$2,420,303. Contract for 203 awarded to Keystone State Const. Co., Pennsylvania Building, \$1,713,715. Contract for 204 awarded to the Keystone State Const. Co., Pennsylvania Building, \$3,336,400. Contract awarded to Philadelphia Subway Const. Co., Lincoln Building, Philadelphia, for 104, \$2,885,941.

Court Room No. 453, (int. alt.), City Hall, Philadelphia. Architect, Joseph A. Poletter, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Bureau of City Property, 113 City Hall, Philadelphia. Brick, mill work, composition floors, marble work, metal lath, ornamental iron work. Contract awarded to Mitchell Bros., 2125 Race street, Philadelphia.

Apartment House (alt. and add.), 2550 N. Broad street, \$6,000. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Guy Luburg, Broadway and Walnut streets, Camden, N. J. Brick, 3 stories, slag roof, steam heating, electric lighting, tile and marble work, hollow metal skylights, kalamein doors, parquetry floors, metal lath, roof ventilators, ornamental iron work. Contract awarded to D. J. McNamee, 1621 North Fifteenth street, Philadelphia.

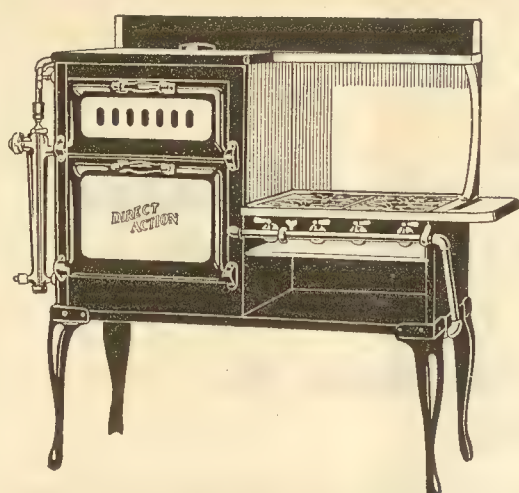
Garage, 1512-16 Germantown avenue, Philadelphia, \$5,000. Architect, private plans. Owner, Harry Katz, 1535 Germantown avenue, Philadelphia. Brick, 1 story, 42x100 feet, slag roof, steam heating, electric lighting, cement floors. Contract awarded to Shestack & Co., 322 Dickinson street, Philadelphia.

Store and Residence (alt. and add.), 1420 Walnut street, \$14,000. Architect, Edw. B. Delk, 34 South Seventeenth street, Philadelphia. Owners, the Misses Biddle, 1326 Spruce street, Philadelphia. Brick and steel, 3 stories, 26x190 feet, tin roof, oak and pine floors, metal bulk, rolled steel sash, hollow metal skylights, marble work, electric work, plumbing, steam heating. Contract awarded to Thomas Little & Son, 1713 Moravian street, Philadelphia.

Residence and Garage (alt. and add.), Sunset avenue, Chestnut Hill, Philadelphia. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Samuel W. Morris, Girard Trust Co., Broad and Chestnut streets. Stone and brick, 4 stories, addition 36x30 feet, slate and slag roofs, canvas, pine and oak floors, tile and marble work, hollow metal sash, fire and hollow metal doors, ornamental iron work, metal lath, elevator (plumbing, hot air heating and electric work reserved). Contract awarded to J. P. Thompson, Real Estate Trust Building, Philadelphia.

Store and Loft Building (remodeling), 614-16 Market street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Akron Tire Co., on premises. Brick, 4 stories, 40x100 feet, slag roof, steam heating, electric lighting, tile and marble work, maple and pine and cement floors, metal lath. Contract awarded to George H. Frank, 1113 Cherry street, Philadelphia.

Office Building (int. alt.), 315 Arch street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Chas. E. Schmidt, 327 Arch street, Philadelphia. Consists of interior alterations to third floor, office partitions, electric lighting, hollow metal sash, metal lath, mill work. Contract awarded to John E. Siostrom Co., Inc., 1715 North Tenth street, Philadelphia.



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PENNSYLVANIA Construction News

Hotel, Northampton Heights, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, James F. Miller, South Bethlehem, Pa. Brick, 3 stories and basement, 43x85 feet, slag and Spanish tile roof, steam or hot water heating, electric lighting, tile and marble work, yellow pine floors, fire escapes. Plans completed. Owner ready for bids.

Turkish Bath, 809 East Fourth street, South Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Co. Building, Bethlehem, Pa. Owner, Peter Rull, South Bethlehem, Pa. Brick, 2 stories and basement, 30x115 feet, Barrett roof (high power steam heating and plumbing reserved), electric lighting, tile and marble work, cement and yellow pine floors, metal lath, hollow metal skylights, roof ventilators. Plans completed. Owner will take both general and sub-bids in a few days.

Home, Fourth and Hamilton streets, Allentown, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owners, Rescue Mission, Allentown, Pa. Brick, 3 stories and basement, 40x100 feet, composition roof (vapor heating and electric work reserved), combination lighting, pine and composition floors, hollow tile, dumbwaiter, iron stairs. Architect taking bids, due August 7th. Butz & Clader, Fifth and Hamilton streets; Jacob Nagle, 117 South Twelfth street; Wm. Held, 119 South Thirteenth street, and L. M. Kratz & Son, all of Allentown, Pa., are figuring.

Factory (alt. and add.), Easton, Pa. Architect, A. D. Chidsey, Drake Building, Easton, Pa. Owner, Eschenbach Printing Co., Easton, Pa. Brick, 2 stories, 55x40 feet, pine floors, city steam heating extension, rolled steel sash and skylights. Owner taking bids, due August 1st. F. J. Learch & Co., Pine and West streets;

Mr. Fulkenson, A. A. Bechtel and Asa H. P. Smith & Son, all of Easton, Pa., are figuring.

Double Bungalow, South Bethlehem, Pa. Architect, E. Pickin, Hunsicker Building, Allentown, Pa. Owner, Rozi Gosztosy, Bethlehem, Pa. Brick and stucco, 2 stories, 36x72 feet, slate roof, steam heating, electric lighting, pine floors. Owner taking sub-bids.

Residence, Whitmarsh, Pa. Architects, Morris & Erskine, Crozer Building, Philadelphia. Owner, Rollin Norris, care of U. G. I. Co., Broad and Arch streets, Philadelphia. Stone, 2½ stories, 31x59 feet, shingle roof, cement and pine floors (plumbing, heating and electric work reserved). Architects taking bids, due August 3rd. H. E. Grau Co., 1707 Sansom street; James B. Flounders, 1329 Arch street; John E. Kearney, 327 North Sixty-third street, Philadelphia; W. John Stevens, Inc., Wyncote, Pa.; Howard F. Amey, Ambler, Pa.; Leidy Heckler, Ambler, Pa., and W. D. Lukens, North Wales, Pa., are figuring.

Home Building, Power House and Tunnel, Lansdowne avenue and Garrettford Road, Lansdowne, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, New St. Vincent Home, care of Most Rev. Archbishop E. F. Prendergast, Eighteenth and Race streets, Philadelphia. Brick, stone, steel, reinforced concrete, hollow tile and terra cotta, slate, tile, slag and copper roof, cement, asphalt, composition, maple and pine floors, steam heating, electric lighting, tile, marble and terrazzo work, rolled steel sash, copper skylights, fire doors, iron stairs, enameled brick, metal lath, 2 elevators, waterproofing, ornamental iron work. Revised plans completed. Architect ready for bids.

Factory (add.), Ardmore, Pa. Architect,

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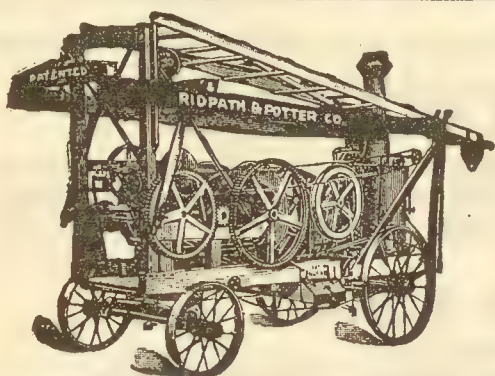
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Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Brick, steel and reinforced concrete, 5 stories, 75x100 feet, slag and tile roof, maple floors (heat, plumbing, electric work, elevators, rolled steel sash reserved). Architect sub-letting.

Residences (8), Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, James Scott, Paoli, Pa. Hollow tile and plaster, stone and plaster, 2½ stories, various sizes, shingle roofs, hot water heating, electric lighting, hardwood floors. Plans about completed. Owner will take sub-bids.

Bungalow, Parkhill Manor, Bethlehem, Pa. Architect, Robert E. Ochs, City Realty Building, Bethlehem, Pa. Owner, M. T. Huffman, Wilber Trust Building, Bethlehem, Pa. Frame and stucco, 1½ stories, 22x50 feet, slate or shingle roof, pine floors. Plans completed.

Garage, West Side, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mrs. Iva Krause, Bethlehem, Pa. Brick, 1 story, 25x25 feet, tin roof, canvas floors, electric light. Plans in progress.

Store (alt. and add.), Bethlehem, Pa. Architect, Robert E. Ochs, City Realty Building, Bethlehem, Pa. Owner, Mr. Schum (Antique Shop), Bethlehem, Pa. Interior alterations and brick addition, 2 stories, 20x53 feet. Plans in progress. Owner will take sub-bids.

Apartment House, Third and Seneca streets, South Bethlehem, Pa. Architect, A. W. Leah, South Bethlehem, Pa. Owner, Marcus Goodman, South Bethlehem, Pa. Brick, 3 stories, 67x36 feet, slag roof, hot water heating, electric lighting, tile and marble work, elevators. Plans completed.

Apartment House, Northampton Heights, Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Samuel H. Seigel, 335 New street, South Bethlehem, Pa. Brick, 3 stories, composition roof, hot water heating, combination lighting, pine floors, metal ceilings. Plans completed.

Residence, Allentown, Pa., \$6,000. Archi-

tect, David Levy, 938 Hamilton street, Allentown, Pa. Owner's name withheld. Hollow tile and stucco, 2 stories and basement, 30x30 feet, slate roof, vapor vacuum heating, electric lighting, pine floors. Plans in progress.

Double Residence, Parkhill Manor, Bethlehem, Pa. Architect, Robert E. Ochs, City Realty Building, Bethlehem, Pa. Owner, E. T. Huffman, Wilber Trust Building, South Bethlehem, Pa. Hollow tile and stucco, 2 stories, 28x43 feet, slate or shingle roof, pine floors. Plans completed.

Factory and Boiler House, Pennsburg, Montgomery County, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owners, Perkiomen Paper Co., Pennsburg, Pa. Brick, 1 story, 100x100 feet, covered iron roof, cement floors, electric lighting, rolled steel sash. Plans completed. Owner will take sub-bids on all lines.

Chief Gunners' Quarters, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Hollow tile, concrete footings, 2 stories, asbestos shingle roof, steam heating, electric lighting, wood floors. Owners ready for bids, due August 13th.

Church, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Upper Dublin Brethren Church, Rev. H. M. Garman, 4637 North Thirteenth street, Philadelphia. Stone, 1 story and basement, 44x80 feet, slate roof. Plans about completed. Architects ready for bids in two weeks.

Malleable Foundry Plant, Temple, Pa. Architect, Frank D. Case, People's Gas Building, Chicago, Ill. Owners, Temple Malleable Iron and Steel Co., Temple, Pa. Brick and steel and reinforced concrete, 1 story, office building, 56x50 feet; carpenter pattern shop, 90x36 feet; locker building, 52x41 feet; core building, 71x50 feet; power house, 81x66 feet; shipping and soft iron mill and annealing rooms, 263x95 feet; malleable foundry, 288x136 feet; hard iron room, 170x32 feet; sand shed, 115x24 feet; slag and prepared roof,

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wood block, brick, cement, maple and oak floors (plumbing, heating and lighting reserved), rolled steel sash, hollow metal skylights, fire doors, hollow tile, metal lath, roof ventilators, iron stairs. Owners have received bids.

Stores (10), Lancaster Pike, Ardmore, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, Frank H. Mahan, Lancaster Pike, Ardmore, Pa. Brick, 2 stories, 18x50 feet, slag roof, steam heating, electric lighting, pine floors. Plans about completed. Owner ready for sub-bids in a few days.

Stable (2), Glenolden, Delaware County, Pa. Architect, private plans. Owners, H. K. Mulford Co., 428 South Thirteenth street, Philadelphia. Frame, 2 stories (104 and 60 horses). Plans completed. Owners will take bids.

Mausoleum, Easton, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, York Mausoleum Co., J. R. Smith, Drake Building, Easton, Pa. Granite, marble and bronze, 1 story, 30x100 feet, tile roof, marble floors. Plans about completed. Owner will take bids in two weeks.

Residence, Third and Emerald streets, Harrisburg, Pa., \$7,000. Architect, Harry Kain, 317 Chestnut street, Harrisburg, Pa. Owner, B. Shelly, Harrisburg, Pa. Brick and stucco, 2½ stories, 26x32 feet, slate roof, oak floors, tile, marble and terrazzo work, metal lath, damp-proofing (heating, lighting and plumbing reserved). Plans completed. Architect ready for bids.

Boiler House, Lancaster, Pa. Architect, M. R. Evans, Lancaster, Pa. Owners, Lancaster General Hospital, Lancaster, Pa. Brick, 1 story, 65x60 feet, slate roof, cement floors, electric lighting. Architect taking bids, due August 1st. Herman Wolson, Lancaster, Pa., is figuring.

Residence, Mt. Joy, Pa. Architect, Malvern Evans, Lancaster, Pa. Owner, H. G. Longenecker, Mount Joy, Pa. Brick, 2 stories, 38x

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34 feet, slate roof, heating not decided. Owner will sub-let.

Residence, Plymouth Township, Pa. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, W. Findlay Brown, Pennsylvania Building, Philadelphia. Stone and frame, 2½ stories, 81x40 feet (heating and plumbing reserved), vapor vacuum heating, electric lighting, tile work, hardwood floors. Architects ready for bids.

Residence, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner's name withheld. Stone and half timber, 2½ stories, 45x70 feet. Plans in progress.

Residence, Woodley Lane, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, E. J. Hedden, Finance Building, Philadelphia. Stone, 2½ stories, 35x60 feet. Plans in progress.

Cottages (3), Laurelton, Union County, Pa. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owners, State of Pennsylvania, Board of Managers of Village for Feeble Minded Women, Miss Nora P. Brown, president, Lancaster, Pa. Stone (1), 1 story, 30x150 feet, and two 2½ stories, 40x60 feet, slate roof (plumbing, hot water heating and electric work reserved), pine, cement and composition floors, metal lath. Plans in progress.

Pennsylvania Contracts Awarded

Garage, Lancaster, Pa. Architect, H. M. Bartholomew, 39 East Grant street, Lancaster, Pa. Owners, Charles F. & B. Grant Stauffer, Lancaster, Pa. Brick, 2 stories, 76x244 feet, slag roof, pine floors, electric lighting. Contract awarded to L. V. Wright, Lancaster, Pa.

Factory (add.), Lancaster, Pa. Architect, private plans. Owner, S. R. Slaymaker, Lancaster, Pa. Brick, 1 story, 20x38 feet, slag roof, concrete floors. Contract awarded to Samuel Bally, Lancaster, Pa.

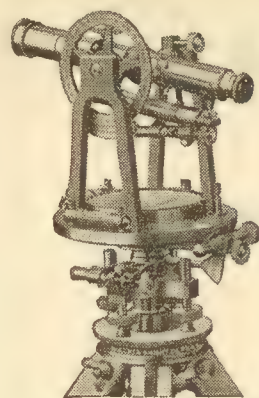
School (add.), Sharon Hill, Delaware County, Pa. Architect, Wm. G. Douglass, Jr., 521 Ludlow street, Philadelphia. Owners, Board of Education, Wm. McNair, secretary, Sharon Hill, Pa. Stone and brick, 2 stories, 27x78 feet (heating, plumbing, lighting and ventilating separate bids), slate roof, concrete and maple floors, wire work, metal lath, safety treads, roof ventilators, metal window guards. Low bidders, Standard Const. Co., 1713 Sansom street, Philadelphia, \$21,650.

Cottage and Garage, Chestnut Hill, Pa. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, John C. Gilpin, West End Trust Bldg., Philadelphia. Stone and frame, 2½ stories, 40x34 feet, slate roof, steam heating, electric lighting, cement and pine floors. Contract awarded to Charles Gilpin, Harrison Building, Philadelphia.

Houses (25), Coatesville, Pa. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Lukens Steel Co., Coatesville, Pa. Frame, 1 story, 18x20 feet, slag roof, pine floors. Contract awarded to Thomas J. & J. R. Whelan, Mutual Life Building, Philadelphia.

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NEW JERSEY Construction News

Bungalows (2), Browns Mills in the Pines, N. J. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, William Rhodenburg, Browns Mills in the Pines, N. J. Frame, 1½ stories, 26x48 feet and 26x20 feet, shingle roofs, hot water heating, electric lighting, tile work, plumbing, yellow pine floors. Owner will take sub-bids in a few days.

Club House, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Merchantville Country Club, Merchantville, N. J. Hollow tile and plaster, 1 and 2 stories, 48x48 feet, and two wings, shingle roof, steam or hot water heating, electric lighting, tile work, pine and cement floors, dampproofing. Revised plans in progress.

Bungalow, North New Haven avenue, Atlantic City, N. J. Architect, Seward Dobbins, Virginia avenue, Atlantic City, N. J. Owners, Hampton Bros., Atlantic City, N. J. Frame and stucco, 2 stories, 18x27 feet, asbestos shingle roof, pine floors, electric lighting. Plans completed. Owner will build.

Garage, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Harry Best, New Jersey avenue, Atlantic City, N. J. Brick, 1 story, 175x40 feet, slag roof, hot water heating, electric lighting, tile work, hollow metal skylights, concrete floors, gasoline storage system. Plans about completed. Owner will build.

School, Titusville, Mercer County, N. J., \$20,000. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Titusville School Board, Titusville, N. J. Brick, 2 stories, 51x66 feet, slate roof (steam heating, plumbing and electric work reserved), pine floors. Plans in progress.

Residence (alt. and add.), Greenwood avenue, Trenton, N. J. Architects, W. W. Slack

& Son, St. Regis Building, Trenton, N. J. Owner, General E. C. Murray, Greenwood avenue, Trenton, N. J. Brick and stucco, 2½ stories, 33x44 feet, slate roof, hardwood floors, tile work. Plans in progress.

Carpenter and Pattern Shop, New York avenue, Trenton, N. J. Architect, R. A. Schumann, 932 Lamberton street, Trenton, N. J. Owners, Trenton Malleable Iron Co., New York avenue, Trenton, N. J. Brick, 2 stories, 28x128 feet, slag roof, yellow pine floors (elevators and heating reserved), rolled steel sash. Plans in progress.

Warehouse (add.), Atlantic City, N. J. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owners, Hotel Traymore, Atlantic City, N. J. Brick and reinforced concrete, 2 stories, 16x150 feet, Barrett or slag roof, fire and hollow metal doors, iron stairs, elevators, roof ventilators (lighting reserved). Architects taking bids, due August 6th. Warren, Moore & Co., Colonial Trust Building, and H. E. Grau Co., 1709 Sansom street, Philadelphia, are figuring.

Maryland Construction News

Brewery (add.), Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, the Standard Brewery Co., 1766 North Gay street, Baltimore, Md. Brick and concrete, 3 stories, 30x50 feet, slag roof, cement and maple floors (steam heating and electric work reserved), metal lath, rolled steel sash, fire doors. Architect taking bids, due August 6th. Fred Decker & Son, 1209 East Biddle street, and the Consolidated Eng. Co., Calvert Building, both of Baltimore, Md., are figuring.

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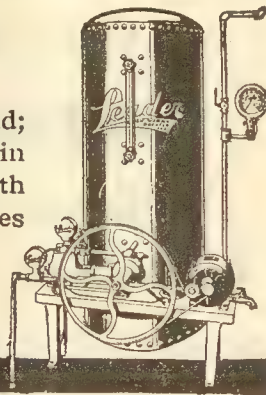


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NEW JERSEY Contracts Awarded

Factory, Copewood and Thorn streets, Camden, N. J., \$50,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Wood Manufacturing Co., Seventh and Erie avenue, Camden, N. J. Brick and terra cotta, 1 story, 74x262 feet (plumbing, heating and electric work reserved), slag roof, pine and maple floors, hollow metal skylights, fire doors, ornamental iron work, waterproofing. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Fire House, Vineland, N. J., \$9,975. Architects, Hill & Walls, Real Estate Trust Building, Philadelphia. Owners, Borough of Vineland, office of Commissioners, City Hall, Vineland, N. J. Brick, 2 stories, 29x70 feet, Barrett roof, electric light, concrete and pine floors (hot water heating reserved). Contract awarded to Mutual Eng. Co., Franklin Building, Philadelphia.

Library, Haddonfield, N. J., \$30,000. Architect, Wm. C. Prichett, 416 Walnut street, Philadelphia. Owners, Haddonfield Library and Historical Society, care of Wm. G. Moore, chairman Building Committee, Drexel Building, Philadelphia. Brick and plaster, 1 story and basement, 63x20 feet, wing 25x24 feet, slag roof, steam heating, electric lighting, tile and marble and terrazzo work, hollow metal skylights, pine and oak floors, metal lath, waterproofing. Contract awarded to James H. Wells, Otis Building, Philadelphia.

School (alt.), West Side, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, School Board, H. H. Young, secretary, Atlantic City, N. J. Consists of new toilet. Contract awarded

to Wilbert Beaumont, 10 South Tennessee avenue, Atlantic City, N. J.

Garage (alt.), Trenton, N. J., \$500. Architect, R. A. Schumann, 932 Lambertson street, Trenton, N. J. Owners, Trenton Malleable Iron Co., New York avenue, Trenton, N. J. Brick, 2 stories, 39x26 feet, slag roof, yellow pine floors. Contract awarded to C. Y. Barlow, Trenton, N. J.

School, Hamilton Township, N. J. Architects, W. W. Slack & Son, Trenton, N. J. Owners, School Board of Hamilton Township, Mercer County, N. J. Brick, 2 stories, 8 rooms. Low bidders, Burton & Burton, American Mechanics' Building, Trenton, N. J.

Miscellaneous Construction News

Residence, Lansing, Mich. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owner's name withheld. Stone, 2½ stories, 40x60 feet. Plans in progress.

Church and Sunday School, Cocksackie, N. Y. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, First Methodist Episcopal Church, care of Rev. Leadbeater, Cocksackie, N. Y. Stone, 1 story and basement, 40x100 feet, slate roof, steam or hot air heating, electric lighting, tile work, cement and pine floors. Plans completed. Owners will take bids.

Bungalow, Orlando, Fla. Architects, W. W.

Slack & Son, St. Regis Building, Trenton, N. J. Owner, Levi Risdon, Trenton, N. J. Shingle, 1 story, 30x42 feet, shingle roof, yellow pine floors. Contract awarded to A. C. Voorhees, Trenton, N. J.

Delaware Construction News

Hay Shed, Fourth and French streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Philip Thompson Co., on premises. Frame, 2 stories, 100x60 feet, slate roof, pine floors. Plans in progress.

Office Building (alt.), Fourth and French streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, W. C. Phillips, on premises. Consists of general interior alterations. Plans in progress.

Store Fronts (10) (alt.), Tenth and French streets, Wilmington, Del. Owners, A. L. & F. M. Crawford, 915 Delaware avenue, Wilmington. Brick, 1 story. Plans in progress.

Residence, Newark, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, George L. Townsend, Ford Building, Wilmington, Del. Frame, 2½ stories, 30x40 feet, shingle roof, oak or pine floors. Plans in progress.

Bungalow, Horden Heights, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, George E. O'Connor, Wilmington, Del. Hollow tile and stucco, 1½ stories, 28x40 feet, shingle roof, hot water heating, combination lighting, tile work, pine floors, hollow tile. Plans in progress.

School, Laurel, Del., \$35,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Commissioners of Laurel, Laurel, Del. Brick and concrete, 2 stories and basement, 88x100 feet, slag roof, pine floors (mechanical air heating and ventilating reserved), electric lighting, pine floors. Plans about completed. Architect will take bids in a few days.

Tire Shop (alt.), Delaware avenue and West street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, N. W. Howell, on premises. General interior alterations, 3 stories. Architect taking sub-bids and general bids, due as soon as possible. James Bryce, 501 West Twenty-sixth street, and Charles J. Dougherty, 2515 West Eighteenth street, both of Wilmington, Del., are figuring.

Factory Building (alt. and add), Second street, between Orange and Tatnall streets, Wilmington, Del. Architect, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owners, P. Lorillard Co., on premises. Brick, 3 stories and basement, 73x94 feet, slate roof (steam heating and electric lighting reserved), rolled steel sash, fire doors, metal lath, elevators, fire escapes. Architect taking bids. Dangel & Son, 500 Van Buren street; W. D. Haddock & Co., 804 Orange street; A. S. Reed & Bro. Co., 815 Shipley street, and Joyce & Kerrigan, Third and Greenhill streets, all of Wilmington, Del., are figuring.

Bungalow, Hill Crest, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, A. P. Stevenson, King street, Wilmington, Del. Frame, 1½ stories, 32x55 feet, shingle roof, yellow pine floors. Contract awarded to Charles Brice, 501 West Twenty-sixth street, Wilmington, Del.

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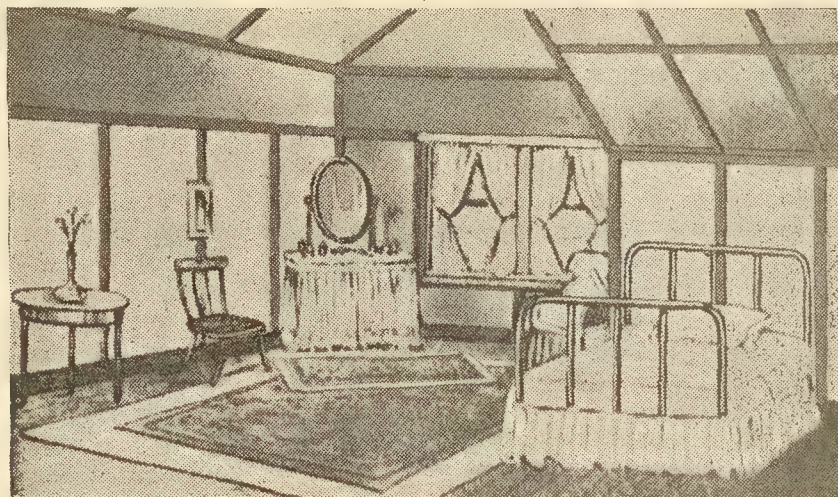
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Permits for New Buildings

Dwellings (6), north side of Fisher avenue, west of Fifth street, \$17,000. Wm. H. Ashton (O and C), 5600 Mascher street. Brick, 2 stories, 15x44 feet, slag roof, hot water heating.

Garage, northwest corner of Gaul and Clementine streets, \$500. A. Brokarvis (O), on premises. John W. Janyszek (C), 3169 East Tieton street, Philadelphia. Brick, 1 story, 18x14 feet, slag roof.

Dwelling, Gilham street, east of Oakley street, \$3,200. Albert Gerstlauer (O), 434 West Erie avenue. Michael Stevens (C), 910 Fanshaw street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hot water heating.

Garage, southeast corner of Fifteenth and Haines streets, \$450. Ed. Littleman (O), 6825 North Fifteenth street. John Zeh (C), 6815 North Fifteenth street. Stone, 1 story, 16x16 feet, reinforced concrete roof.

Garage, rear of Unity street, \$450. D. Galeone (O), 1336 Unity street. Harry Hetzel, 1500 Womrath street. Brick, 1 story, 15x24 feet, slag roof.

Shed, P. N. & N. Y. R. R., north of Bristol streets, \$500. P. N. & N. Y. R. R. Co. (O and C), Twelfth and Market streets. Frame, 1 story, 10x24 feet.

Mill Building, Thirty-ninth and Powelton avenue, \$19,000. George W. Smith & Co. (O), on premises. John N. Gill & Co. (C), Otis Building. Brick, 1 story, 142x142 feet, slag roof.

Garage, 1733-45 Gilligham street, \$2,000.

S. Dugdale (O), 4540 Mulberry street. Lafayette Coates (C), Frankford, Philadelphia. Brick, 1 story, 69x67 feet, slag roof.

Storage Building, Elbow street and P. R. R., \$3,000. Charles W. Horrock (O), 120 Green Lane. H. M. Swartley (C), 6835 Ridge avenue. Stone, 2 stories, irregular size.

Garage, 5525 Jefferson street, \$300. H. Hood (O), 5509 Oxford street. Samuel Rogers (C), 5312 Thompson street. One story, 15x22 feet, slag roof, bulks.

Garage, 145 Carpenter street, Germantown. Carpenter Estate (O), on premises. R. W. Neff (C), 6610 Germantown avenue. Iron on iron, 1 story, 12x20 feet, slag roof.

Garage, 1732 North Uber street, \$1,750. S. Silverstein (O and C), 1729 North Twentieth street. Brick, 1 story 17x28 feet.

Garage, 6837 Gossten avenue, Mt. Airy, Pa., \$400. Thomas Allsop (O and C), on premises. Stone, 1 story, 14x19 feet, slag roof, cement floors.

Napthalene House, Bermuda and Margaretta streets, \$40,000. Barrett Co. (O), Frankford, Philadelphia. A. R. Raff Const. Co. (C), 1635 Thompson street. Brick, 1 story, 87x107 feet, slag roof.

Dwelling, Rising Sun Lane and Levick st., \$3,000. J. Winkelbeck (O), J below Benner street. William Schmidt (C), 4936 North Fairhill street. Brick, 2 stories, 16x43 feet, slag roof, hot water heating.

Garage, 6800 Quincey street, \$15,000. J. R. Walsh (O), 6733 Emlen street. M. J. Walsh (C), 6733 Emlen street. Brick, 1 story, 95x134 feet, slag roof.

Library, Nineteenth to Twentieth street and

to Vine. City of Philadelphia (O), care of Librarian John Ashhurst, Thirteenth and Locust streets. John Gill & Sons (C), 1303 Citizen's Building, Cleveland, Ohio. Brick and Indiana limestone, 4 stories, 327x327 feet, promenade, tile roof, steam heating.

Garage, 626 South Twentyfirst street, \$500. Joseph Dunlevy (O), on premises. W. F. Andrews (C), 2053 South street. Brick, 1 story, 16x16 feet, slag roof.

Office Building, Fifty-eighth and Woodland avenue, \$11,000. J. Gibson McIlvaine Co. (O), on premises. Smith-Hardican Co. (C), 1606 Cherry street. Brick, 2 stories, 32x49 feet.

Sales Building, 847-49 North Broad street, \$60,000. R. A. Heyman (O), Widener Building. Turner Concrete Steel Co. (C), 1713 Sansom street. Brick, 3 stories, 46x46 feet, slag roof, steam heating.

Alterations and Additions

Dwelling, 56 and 58 West Penn street, \$650. J. Brieton (O), on premises. James H. Walker (C), 168 East Walnut Lane. Interior alterations, new roof.

Dwelling, 914 West Cambria street, \$1,900. Arthur Milner (O), 825 Stella street. Harry Brocklehurst (C), 512 West Norris street. Rear brick addition, 1 story, 8x11 feet, tin roof.

Dwelling, 1315 North Fifteenth street, \$775. H. A. Barnes, M. D. (O), on premises. Robert Baile Co., Inc. (C), 815 North Nineteenth street. Hot water heating system.

Dwelling, 1946 East Lehigh avenue, \$885.

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Mrs. Meyer (O), on premises. J. F. Crowe (C), 3127 Belgrade street. General interior alterations.

Manufacturing Building, southeast corner of Hancock and Berks streets, \$1,000. Emil Levene (O and C), 2034 North Twenty-second street. Interior alterations.

Dwelling, 1159 South Eleventh street, \$500. Dominco Tiberino (O), on premises. Michael Domico (C), 624 Sears street. New cellar.

Offices, 3103 Girard avenue and 1208 North Thirty-first street, \$1,500. Philadelphia Electric Co. (O), Tenth and Chestnut streets. John R. Wiggins Co. (C), Otis Building. General interior alterations.

Storage Building, 2025 Market street, \$1,000. Jacoby & Sons Co. (O), on premises. Metzger & Fisher (C), Otis Building. Alterations.

Dwelling, 1507 West Tioga street, \$600. C. Burris (O), on premises. Joseph S. Tomlinson (C), 1710 West Venango street. Third story addition, brick, slate roof, 14x28 feet.

Cafe and Dwelling, 1217 Columbia avenue, \$500. John C. Herriman (O), 1905 North Twelfth street. Samuel C. Campbell (C), 1215 Columbia avenue. Repairs.

Dwelling, 521 South Ninth street, \$380. B. Sternberg (O), 1644 South street. N. Rozinsky (C), 520 Dickinson street. Rear addition, brick, 1 story, 14x12 feet, slag roof.

Bleach House, 2560 North Third street, \$750. John Davidson (O), on premises. H. E. Baton (C), 1713 Sansom street. Repairs to old roof.

Machine Shop and Office, Twenty-third and Westmoreland streets, \$900. Bureau Bros. (O), on premises. Haslett Spiral Chute Co. (C), 1937 Tioga street. Alterations, new stairways.

Apartment House, 1330 Spring Garden st., \$900. Real Estate Trust and Title Co. (O), 523 Chestnut street. John Baizley Iron Works (C), 514 South Delaware avenue. Fire escape.

Apartment House, 341 South Twelfth street, \$950. Frank B. Hendley (O), 17 South Front street. John Baizley Iron Works (C), 514 South Delaware avenue. Fire escapes.

Restaurant, 513840 Market street, \$700. Wm. B. York (O), on premises. Eckert Bros. (C), 5151 Ludlow street. Alterations.

Garage, 1311-13 Irving street, \$900. Caldwell & Co. (O), Juniper and Chestnut streets. Harry R. Rust (C), 19 South Eighth street. Interior alterations.

Offices and Stores, 1214 Walnut street, \$6,000. Wm. L. Ludascher (O and C), 152 Apsley street. New flush bulks and repairs.

Garage, School House Lane, west of Wissahickon avenue, \$450. Frank R. Strawbridge (O), School House Lane. F. H. Rinker (C), 416 West Coulter street. Alterations.

Garage, 420 North Fifty-third street, \$3,000. George W. Bardsley (O and C), on premises. One story addition, brick, 77x82 feet, slag roof.

Stable, Carlton street, west of Twenty-fourth street, \$750. Wm. S. Lilly (O), 2420 Collowhill street. R. J. Whiteside & Sons (C), 2115 Wallace street. Brick, 1 story, 15x25 feet.

Shop, 1628-30 Melon street, Philadelphia, \$750. A. F. Bornot & Sons (O) Seventeenth and Fairmount avenue. Samuel J. Rea & Sons (C), 1608 Fairmount avenue. One story addition, brick, 10x26 feet, cement floors.

Dwelling, 3532 Smedley street, \$900. Wm. Edwards (O), on premises. W. J. Chase (C), Ashton Road, Holmesburg, Philadelphia. Brick, 1 story addition, 12x12 feet.

Storage House, 1421-23 Kater street, \$350. F. J. Nelson (O), 1124 Locust street. Wm. J. Robinson (C), 1508 Lombard street. Interior alterations.

Store, 4536 Frankford avenue, \$475. H.

Schuler (O), on premises. Rush Bros. (C), 1104 Fillmore street. Repairs.

Dwelling, east side of Almond street, west of Allegheny avenue, \$300. Mary Cassidy (O), on premises. C. Bonner (C), 2838 North Front street. One story rear, brick, 10x10 feet, slag roof.

Dwelling, 2024 Chestnut street, \$4,000. Mr. Blackistone (O), on premises. W. W. Prouse (C), Drexel Hill, Pa. New vapor heating system.

Dwelling, 1109 Federal street, \$900. E. De Marco (O), on premises. P. Giordana (C), 724 Salter street. Brick addition, 3 stories, 13x20 feet, alterations.

Offices, Broad and Columbia avenue, \$5,000. Columbia Avenue Trust Co. (O), Broad and Columbia avenue. F. L. Hoover & Sons (C), 1023 Cherry street. Interior alterations.

Church, Cheltenham avenue, west of Germantown avenue, \$3,000. First Presbyterian Church (O), on premises. J. W. Kohl (C), 100 North Fifteenth street. Repairs.

Coal Pockets, Sedgley avenue, west of Twenty-sixth street, \$2,000. Fleming & Bates (O and C), on premises. Concrete and timber construction.

Dwelling, Wakeling street, east of Rising Sun avenue, \$600. George T. Sale (O), Pennsylvania Building. H. A. L. Smink (C), 5320 North Twelfth street. Frame addition, 2 stories, 10x13 feet.

Warehouse, 1304 Jefferson street, \$500. J. T. Eberle (O and C), 1300 Jefferson street. New cement floors.

Wash Room, 125 North Water street, \$490. Estate of Frank Kennedy (O). Wm. F. Ritz (C), 34 South Second street, Colwyn, Pa. Low pressure steam heating system.

Store Building, 918 North Marshall street, \$400. Moses Tiernan (O), on premises. B. Enghal (C), 633 Reed street. Repairs.

Warehouse, 148 North Fifth street, \$1,500. Joseph Sphairo (O and C), 152 North Third street. Three-story addition, brick, 20x20 feet, slag roof.

Stable, 1032 Fairmount avenue, \$1,600. National Metal Edge Box Co. (O and C), on premises. Concrete floors, alterations.

Store and Dwelling, 806 East Girard avenue, \$600. J. Hughes (O), on premises. B. J. McKenna (C), 2643 North Hutchinson street. Alterations.

Store and Dwelling, Rising Sun Lane and Cottman street, \$750. John H. Nugent (O), 1103 Cottman street. W. G. Isles & Son (C), 1103 Leveck street. Repairs.

Class Rooms, 1825-27 North Broad street, \$500. Temple College (O), Broad and Berks streets. Ernest Berkenhoff (C), 5133 Walnut street. Repairs.

Store, Broad and Columbia avenue, \$1,500. Mastbaum Bros. & Fleisher (O), 1420 South Penn Square. Smith-Hardican Co. (C), 1606 Cherry street. Alterations.

Apartment House, 2043 Green street, \$500. Wm. Barry (O), on premises. E. H. James (C), 1736 Fairmount avenue. Repairs.

Wash Room, Thirty-sixth and Gray's Ferry Road, \$1,400. D. B. Martin Co. (O), 3006-18 Market street. H. P. Friend, Inc. (C), Norristown, Pa. Brick addition, 1 story, 13x42 feet, slag roof.

Garage, 700 North Sixty-third street, \$800. J. J. Martin (O), on premises. H. P. Friend, Inc. (C), Norristown, Pa. One-story addition, 27x16 feet, slag roof.

Bake Shop, 4906 Wayne avenue. A. Pasquale (O and C), on premises. Alterations, cement floors, gravel roof.

Dwelling, Fifth and McKean streets, Philadelphia, \$300. Charles Weinskein (O), on

premises. Tony Cola (C), 933 Mifflin street. Brick addition, 1 story, 14x13 feet, slag roof.

Store and Dwelling, Fifty-fourth and Webster streets, \$950. Robert Lougherty (O), on premises. F. R. Shriner (C), 5106 Catherine street. Alterations.

Church, Fifteenth and Ogden streets, \$3,000. St. Joachim's Lutheran Church (O), on premises. J. Edward Lynch (C), 2319 East Sergeant street. Slate roof, repairs.

Store, Lincoln Building, Philadelphia, \$300. John Wanamaker (O), Thirteenth and Chestnut streets. Baseh & Co. (C), 1420 South Front street. Bulk windows.

Stores and Dwellings, 302-4-6 Poplar street, \$735. M. Scharber (O), 411 Girard avenue. Max Kane (C), 871 North Sixth street. Flush bulk, new partitions.

Convenience Building, Westmoreland Park, \$3,281. City of Philadelphia (O), City Hall. Hogg Cont. Co. (C), 1634 Sansom street. Brick, slate roof, 13x9 feet, 1 story.

Dwelling, 1525 Federal street, \$480. R. Rienzi (O), on premises. Frank Blundi (C), 1420 South Hicks street. Rear addition, brick, 2 stories, 12x15 feet, slag roof.

Office, Milnor and Bleigh streets, \$1,200. Tacony Steel Co. (O), on premises. Wm. Ratcliffe (C), 1521 Arch street. Brick, 1 story, 16x18 feet, second-story, 16x32 feet, additions.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 16, 1917.—Sealed proposals will be opened in this office at 3 P. M., August 20, 1917, for the extension and remodeling of the United States Post Office (old) at Pittsburgh, Pa. Drawings and specifications may be obtained from the custodian at Pittsburgh, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 19, 1917.—Sealed proposals will be opened in this office at 3 P. M. August 30, 1917, for the construction of the United States post office at Franklin, Pa. Drawings and specifications may be obtained from the custodian of the site at Franklin, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 24, 1917.—Sealed proposals will be opened in this office at 3 P. M. September 4, 1917, for the construction complete of the United States post office at McKees Rocks, Pa. Drawings and specifications may be obtained from the custodian of site at McKees Rocks, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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O. W. Ketcham.....Builders' Exchange, Phila.

Brick Renovating.

Adolph Christensen.....1433 Brown st., Phila.

Builders.

Graham-Campion Co.....Heed Bldg., Phila.
Hogg Construction Co., Inc.,
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Pomeroy Const. Co.....1609 Ranstead st., Phila.

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Consolidated Expanded Metal Co.,
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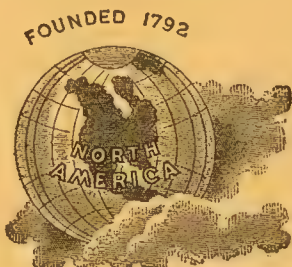
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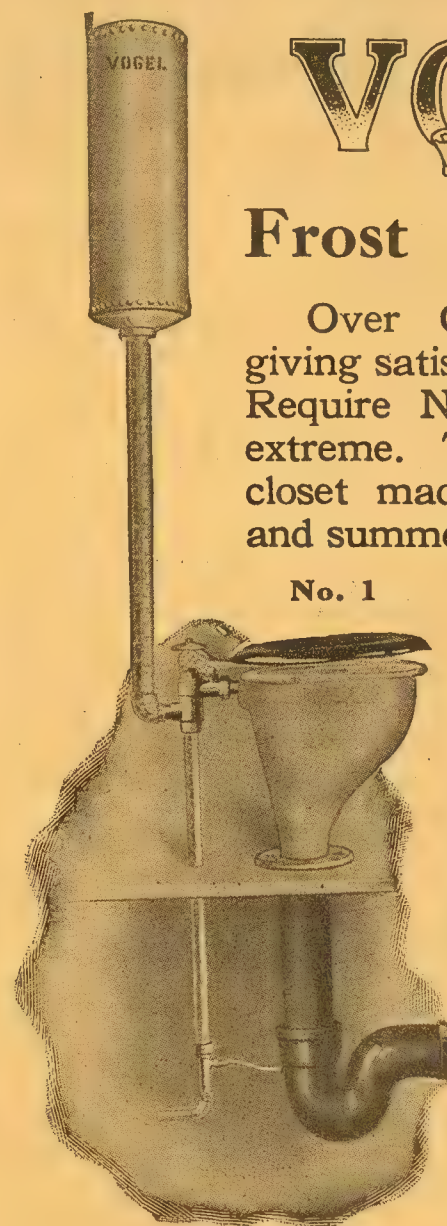
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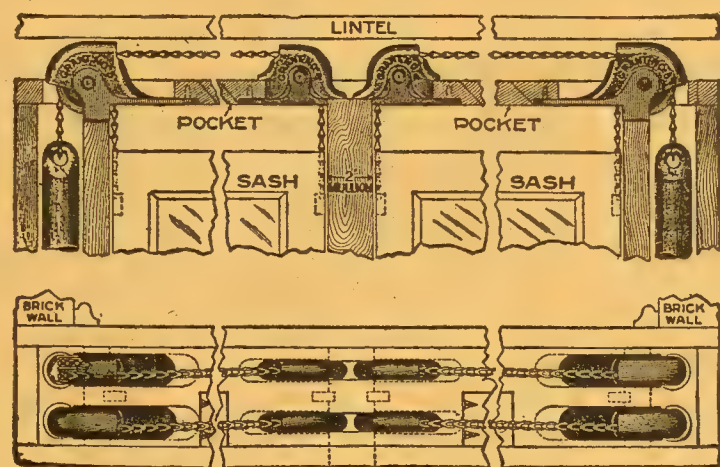
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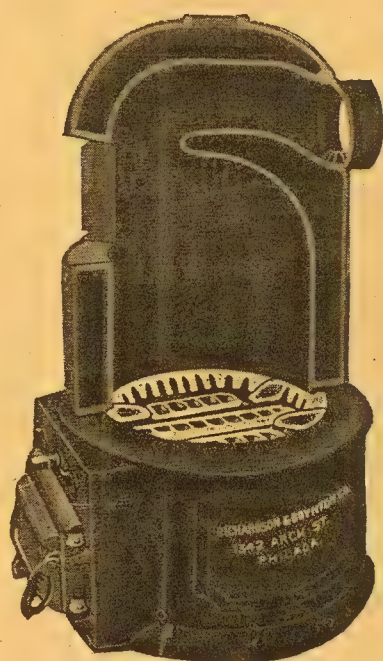
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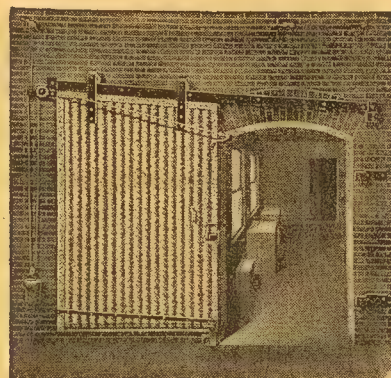
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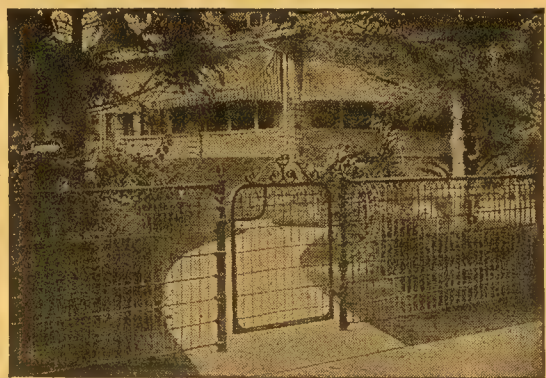
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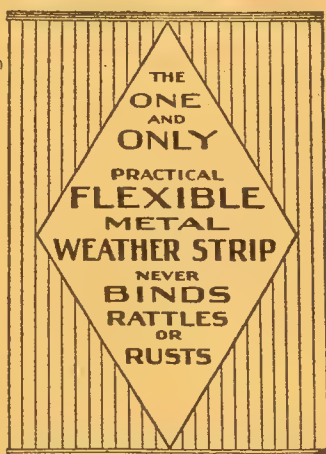
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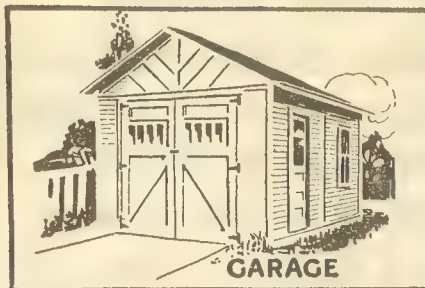
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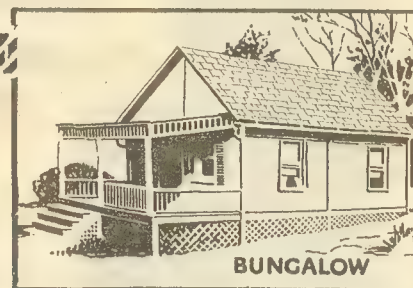
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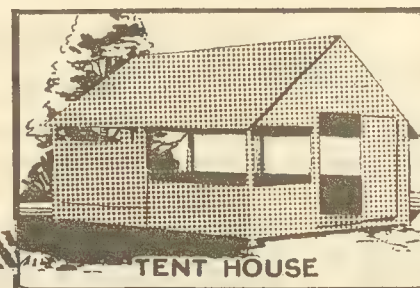
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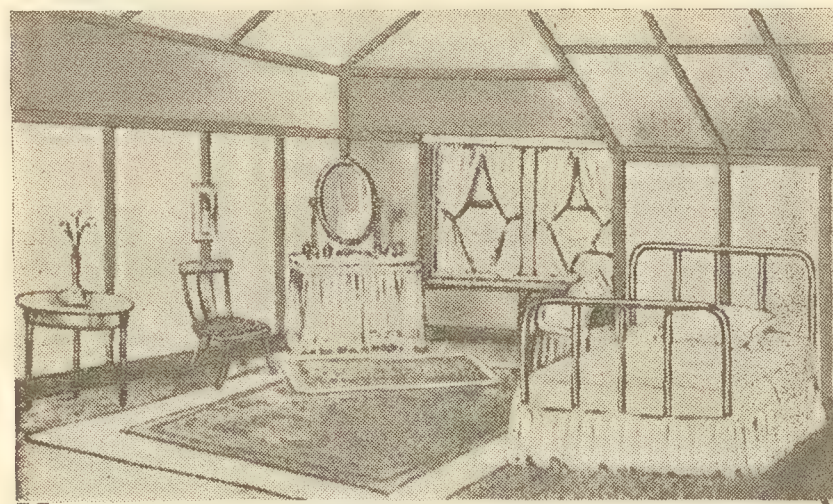
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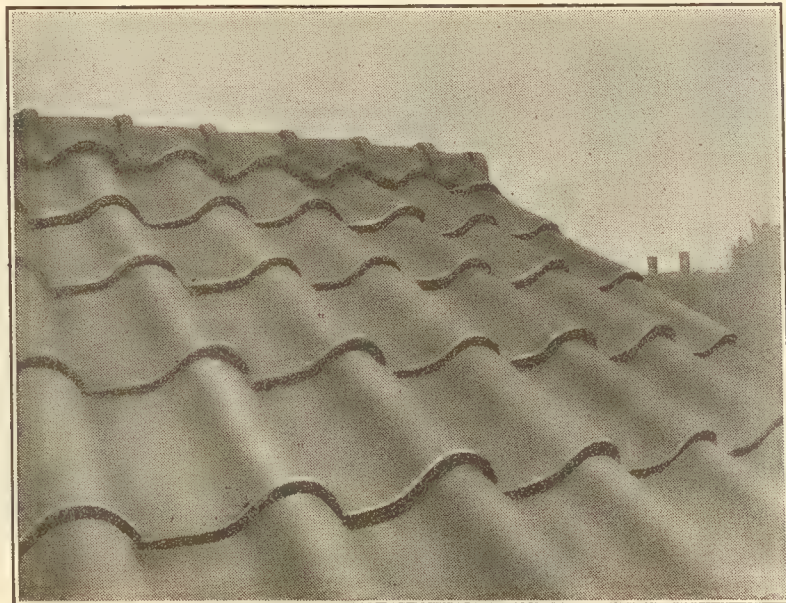
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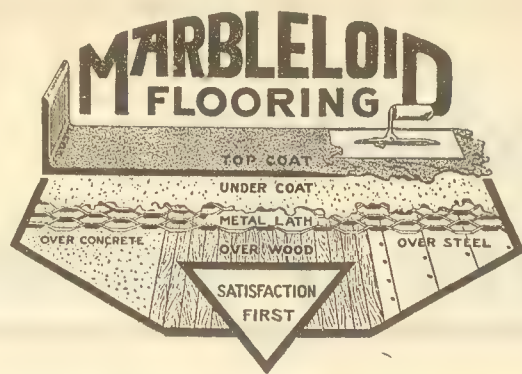


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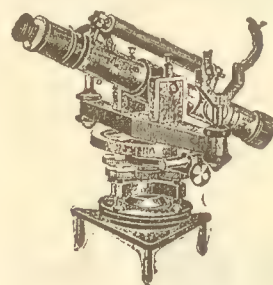
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VOLUME XXXII
Number 32

PHILADELPHIA
August 8, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide
PUBLISHED WEEKLY

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As The Editor Sees It



THE advancing cost of materials used in building is in a fair way to be made the subject of federal investigation. At a recent meeting of the Kansas City Chapter of the American Institute of Architects a resolution was adopted requesting the government to institute such an investigation. Attached to the resolution was a summary of the prices of certain materials during the three year war period showing the rises which have taken place over normal standards. Commenting upon the action of the Kansas City Chapter the *Journal of the American Institute of Architects* remarks:

Accepting the mounting price of steel as a conspicuous reflection of the many factors which the war has injected into the whole industrial situation—profit-taking through unusual cost and labor shortage—we may await the result of the Federal Trade Commission's investigation of steel prices with confidence that it will throw much light upon a situation which is now so obscure as to engender and nourish suspicions. The President, in his statement of July 12 frankly stated that profiteering is not only crippling the prosecution of the war but, in many lines, is materially restraining industrial activities, the successful continuance of which is just as essential in providing the money to pay for the war. As in every calamity the profit-takers are busy rifling the pockets of those who are helpless to prevent it.

But the general condition is well summed up in the current *Atlantic* by Mr. Sidney Webb, for we may accept his narrative of the economic evolution in England as closely resembling what is bound to happen—part of it has already happened—in the United States.

The great problem in war-making, as in war-prevention, is to so distribute the cost that none shall profit but each shall pay according to his means and thus share inexorably in what is no longer disputed as a great national waste. Arrayed against any such solution is a pretty large element—an element which has so long regarded business as a profit-making rather than a service-giving function—that it is idle to expect any instant reversal to a truly patriotic spirit. To that element, profits take precedence over all things—even national peril! Let us recognize these things and not seek to cover them up as the weaknesses they are—but let us also admit that we shall not be able to correct them, except in a partial degree, by governmental investigation and restriction.

* * *

THE building situation is clear: No work should be done which would hamper the work of war preparation and prosecution. On the other hand, it is, as the President plainly states, of the utmost importance that all industry be kept moving in close parallel to the true demand for legitimate needs. The country needs buildings of all kinds.

How shall it proceed in order to meet that need in the fullest measure with no impairment of the production of war material. The solution of that question depends, first, upon the final calculations of the Government's present and future needs for war as a basis upon which to compute the price, kind and quantity of building materials, labor and transportation available for building, and, second, upon that form of patriotism such as will inspire all those in control of the manufacture and distribution of building materials with a desire to make a healthful building program possible. Given that desire, the question can be handled without any governmental investigation. It would be far better if, instead of tempting and incurring a price-regulative fiat, which has not worked out in other countries, manufacturers and distributors could meet and agree upon a patriotic basis.

* * *

ALL forms of production in this country are represented by well-organized associations. Why cannot these highly systematized forces be put at the service of the Nation instead of remaining either inactive or selfishly occupied with their own particular affairs? While it is no doubt true that some organizations of the kind described have studied the question from the unselfish point of view, the amount of activity of that kind seems lamentably small in the fact of the President's urgent re-

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quest for co-operation. Here is an opportunity to make such a demonstration of patriotism as the President has asked for.

Our suggestion is this: That every such organization meet and consider in what manner the industries it represents can be put wholly at the service of the Nation—and by wholly we mean just what the President means. We now know that the war will be won, not by the heroism of men, but by the perfection of organization. Who can contribute more to such an end than those who have spent years in organizing the industries of our country into the strong group associations which now so widely obtain. It would seem pathetic if we cannot profit from England's example! Why wait for the Government? Why not meet it more than half way?

* * *

THE proposition here involved is rather hazy as to essentials, but if we gather its drift it proposes that the organizations come together and agree on a reasonable and fixed scale of prices covering the war period. If this is not the proposition—what is it? The finest kind of patriotism that can be displayed in the face of such a crisis as that through which the country is now passing is the type of patriotism that is willing to forego the opportunity presented for profiteering in order that activity in all lines may remain as nearly normal as war conditions will permit. If this is the kind of co-operation that the *Journal of the A. I. of A.* has in mind we think it would be an excellent thing for American building to get that particular kind of co-operation under way.

* * *

THERE has been no question regarding the patriotic unselfishness of the building industries in the matter of meeting governmental demands upon them. Let me quote from a very timely and graphic article dealing with this phase of things from the pen of Mr. William Phillips Comstock in the current number of *Architecture and Building*. Under the heading "Housing the Soldiers" Mr. Comstock writes:

"Building cantonments for the New National Army will consume in three months' time more money than was spent in any one year on the Panama Canal during its construction. The sixteen National Army cantonment sites have been selected. They are located at Rockford, Ill.; Yaphank, L. I., N. Y.; Annapolis Junction, Md.; Petersburg, Va.; Ayr, Mass.; Wrightstown, N. J.; Columbia, S. C.; Atlanta, Ga.; Chillicothe, Ohio; Louisville, Ky.; Battle Creek, Mich.; Des Moines, Ia.; Fort Riley, Kan.; Fort Sam Houston, Texas; American Lake, Wash., and Little Rock, Ark.

"This is not all. The Navy Depart-

ment is busy on camp construction. The War Department is engaged in the same way. These last mentioned camps are located at Army Posts and in thirty days, from the middle of May to the middle of June, nine cantonments to house the 150,000 men added to the regular army were built. It is said that one of the buildings, 25x220 feet, was erected complete in ninety minutes.

"There is now scarcely six weeks to finish the great cities which the National Army cantonments will be. Each cantonment will house more than 30,000 men and will contain about 1,200 buildings of large size. It is figured that each camp will require about 26,000,000 board feet of lumber, which will be about 1,300 carloads. Other material that will go into the construction and equipment of each camp will amount to about 2,500 carloads more.

* * *

THE actual construction work on the cantonments will be in charge of the Quartermaster Corps and the officer in charge of each cantonment will be known as the constructing quartermaster. Under him will be an assistant quartermaster. The constructing quartermaster will be in full charge during the laying out of the building and will supervise for the Government the entire work of construction as carried on by the contractor.

"The engineers appointed for this work include a number of well-known civil engineers who have been given major's commissions in the Quartermaster's Reserve Corps. In addition several officers of the regular army Quartermaster's Corps are acting in executive capacity.

"The contracts for the sixteen National Army cantonments have been let to sixteen prominent American contracting firms. Contrary to the usual Government system of calling for bids, these contracts have been let under a fee system. The fees vary from 10 per cent. if the cost of the work is under \$100,000 to a fee of 6 per cent. if the cost of the work is over \$3,300,000, but the total fee to the contractor is in no event to exceed the sum of \$250,000."

* * *

THE Emergency Construction Committee of the General Munition Board are taking steps to safeguard the Government from paying unnecessary prices for materials and efforts are being made to mobilize the resources of materials of the various kinds required, co-ordinating the supply and demand and fixing prices which will give the material interests a fair, low margin of profit. As an instance, the Government has chosen the recently organized Southern Pine Emergency Bureau to furnish nearly 100,000,000 board feet of lumber, the larger part of which will be

used for cantonments and the balance for ship building.

"The loyalty and patriotism which prevails throughout the building industries in this contingency, bringing so great a drain upon the material resources and upon the personal time and efforts of the individuals concerned, many of whom have given freely of their services without thought of compensation, is an occasion for national satisfaction."

* * *

THAT bill for the licensing of architects, introduced in the Pennsylvania Legislature, died in committee. A letter from Mr. Albert Kelsey, President of the Pennsylvania State Association, to Mr. C. Emlen Urban, President of the Southern Pennsylvania Chapter, sheds a ray or two of light upon the reasons for its demise. I am indebted to the *Journal of the A. I. of A.* for the letter, which follows:

July 13, 1917.

C. EMLEN URBAN,

President of the Southern Pennsylvania Chapter, A. I. A., Lancaster, Pa.

Dear Sir: I have just learned from State Senator Jenkins, a member of the Judiciary General Committee, why our bill to license architects was never reported out of Committee. He naively told me that it was thought to be a hindrance in the way of poor boys, adding apologetically, that the music teachers and barbers of Pennsylvania had each advanced similar bills, and further that the music teachers' bill was never reported out of Committee any more than ours, but that the barbers' was, only to be voted down by the House.

Very truly yours,

(Signed) ALBERT KELSEY, President.

Just how the legislative wise men were able to figure that raising the standards for admission to the practice of architecture may be regarded as any more of "a hindrance in the way of poor boys" than the drastic requirements adopted for admission to the practice of law and medicine it would, perhaps, be bootless to inquire. The explanation volunteered by Senator Jenkins may be "naive." It is far from convincing.

* * *

HOW the labor situation in the building trades is affected by the draft is thus optimistically discussed by the *New York Real Estate Record*:

"Recent inquiries throughout the building and allied trades indicate the consensus of opinion to be that the elimination of the men called to military service will create but a slight impression upon the industry. Contractors and builders long have realized that a call to service would make serious inroads upon

their already depleted supplies of labor. In order to counteract this effect they have already availed themselves of the many new types of labor-saving appliances designed to speed up construction, cut building costs, and release men of military age for duty without crippling their industry. One of the depressing factors that has for many months been a source of trouble to builders, hampering their progress, and increasing the cost

of structural operations, has been the scarcity of both skilled and unskilled labor. This has made it necessary for employers to make use of every possible kind of labor-saving device and thus almost unconsciously prepare for the draft conditions. As there has been a marked recession in building construction recently, due to many contributive causes, a further tightening of the labor requirements will have but little surface effect."

defends his country's honor, and the artist who sends forth to them both his call of "Service Together."

* * *

The present attitude of the building industry seems to be, more than anything else, one of marking time pending the final decision upon the prices of structural steel to the private consumer, the stabilization of the brick market, the adjustment of labor difficulties and in general a settlement of the numerous adverse conditions that have made starting of structural operations a hazardous matter for both owners and building contractors. There is undoubtedly an undercurrent of activity, as evidenced by the number of contemplated building projects in the hands of the architects and engineers. The plans and specifications for the bulk of these projects are nearing completion and with an early return of conditions that somewhat approach the normal a healthy building movement will be sure to follow. While the activity in prospect is not expected to reach proportions that would indicate a boom, still there is a demand for a large number of structures of various types, the construction of which would keep the structural trades exceedingly active for a long period.

* * *

Henry S. Graves, chief of the U. S. Forest Service, has received a commission as major in the Reserve Engineering Corps, having been granted leave of absence from his position as head of the Forest Service. Major Graves has not been assigned to a command, but is acting under instructions, and is at present in France to make a study of conditions that will have to be met, of equipment that will be called for, and to find out how extensively the services of the American lumbermen can be utilized. A regiment organized on military lines is being recruited by the Forest Service to take up industrial problems and timber supplies for all lumber required for military purposes by the armies.

* * *

By virtue of the quiet atmosphere throughout the building industry there has not been much evidence of life in the markets for structural materials and supplies. Recent reports from prominent manufacturers and dealers in basic building materials indicate the fact that sales have been comparatively light even for this period of the year, and that buyers are evidently holding off in the hope that important recessions in commodity prices will follow the expected Governmental action in regard to the price fixing and control in various lines. This is apparently borne out by the fact that there are numerous inquiries current in the material markets for supplies for contemplated building operations which are being held in abeyance pending a downward movement in prices. The major portion of these structures will proceed as soon as there is some assurance that costs will recede and furthermore that the delivery of essential commodities will be made within a reasonable time.

EDITORIAL NOTES

F. L. Watson, who held the position of treasurer of the American Steel and Wire Company from 1897 to 1915, has removed his headquarters from Chicago to New York, where he has become assistant to the president of the Federal Export Corporation and treasurer of the Commercial Iron and Steel Corporation.

* * *

National Building Granite Quarries Association held its quarterly convention recently at the City Club, Boston, Mass. This association includes many of the firms in the granite industry east of the Mississippi River. The convention was largely attended, about seventy-five being present. At the business meeting in Boston a "Form of Proposal," "Form of Contract" and a "Code of Practice" were discussed and referred to the Board of Directors for adoption. Two weeks' time was voted to allow for suggestions or objections from any interested parties in regard to these questions. After the business meeting, the guests and members left for an automobile trip and visited granite quarries and cutting plants at Rockport, Mass., West Chelmsford, Mass., Concord, N. H., and Milford, N. H. It was voted that the next convention be held in three months at Mt. Airy, N. C. The offices of the association are at 31 State street, Boston.

* * *

Carl H. Watson, of Great Neck, N. Y., has been engaged as engineer in charge of the installation of water and sewer mains and the construction of roads on the United States Government aviation field at Mineola. The general contract for this work has been awarded to the Clough, Bourne Corporation.

* * *

The National Paint, Oil and Varnish Association will hold its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

* * *

Although there has recently been less comment in reference to the extensive building operations undertaken by the Federal Government in the erection of army cantonments, training stations, and the numerous other types of military construction, made necessary by the present crisis, this work is progressing in a most satisfactory manner. In

a large way it is making up for the cessation of building activity in other lines.

* * *

Wentworth Institute, Boston, has placed its entire plant at the disposal of the War Department so that technical training in military engineering may be facilitated for enlisted men. The faculty of the institute is working in co-operation with the offices of the First Regiment of Engineers, Fifth Division, United States National Guard. A course of construction is being given that will continue throughout the summer and probably into the fall months. The concrete laboratory at Wentworth Institute was fitted up in co-operation with the Portland Cement Association, and is being used to teach engineers the essentials of concrete work as particularly applicable to military operations, such as the building of gun foundations, bomb-proof construction, etc.

* * *

The Government work is consuming immense quantities of structural materials and the operations already under way have practically depleted the labor market. In some respects it is to be considered fortunate that the general building activity is as light as it is at present, for the necessities of the Government must take precedence over private work, particularly in these anxious times. Up to the present time the military construction has received every consideration from building contractors of the best standing who have in many instances submerged their personal ambitions and opportunities for larger profits in a patriotic endeavor to be of service to the United States in this time of need.

* * *

The National Arts Club, through its American Artists' War Emergency Fund Committee, has developed a plan, and is actively engaged in creating a fund for the relief of American art workers who may be overtaken by distress caused by the war. This fund will be raised principally through the sale of a "Service Together" seal stamp designed by Mr. Eugene F. Savage (Prix de Rome 1912). Its motto, "Service Together," was suggested by President Wilson in his famous proclamation, and symbolizes the co-operation which exists between the farmer who supplies the food on which the nation fights, the soldier who

INTERNATIONAL BUILDING CONFERENCE TO BE HELD AT PARIS.

An invitation to attend an international conference representing the building interests of the allied countries to be held in Paris on October 4, has been received by the Cleveland, Ohio, Builders' Exchange. The object is to consider conditions as they may exist following the declaration of peace, especially the problems directly connected with the restoration of buildings in the devastated sections of Europe.

In the call emphasis is placed upon the conclusions that the United States alone will be in position to supply the necessary materials for rebuilding towns, factories and railroads laid waste by the ravages of war. The inspiration for the meeting comes from Belgium and the call is signed by a prominent committee representing the building interests of that country. It is probable that an effort will be made by the Cleveland Exchange to interest the national association of builders' exchanges in sending delegates to the conference.

SHOP KINKS.

Stop Screwdriver Slipping.

It is said that the slipping of a screwdriver, something which is especially noticeable with an automatic screwdriver, can be avoided by filing small teeth in the edge of the blade. These teeth should be made about 24 to the inch.

* * *

For the Stair Builder.

One method used for getting the proper ratio between tread and riser in planning out a stairway is to make the product of the two equal 66. For example, suppose we have a rise of 7 inches, then 66 inches divided by 7 equals 9 3-7 inches, practically 9 3/8 inches, as the width of the tread.

* * *

Filling Up Cracks in Concrete.

Use old newspapers soaked and softened in linseed oil. Clean out all dirt from cracks or joints, then paint inside of cracks or joints with good red-lead and oil. When hard and dry, fill cracks or joints with the soaked paper, smooth off, and when dry and hard, clean off with pumice stone or other grinding material, and, if well done you will have a nice smooth job of work.

AS WANAMAKER SEES IT.

John Wanamaker, Philadelphia's noted retail merchant, said in a recent bulletin:

"Patriotic economy means the elimination of waste and extravagance. It means the conservation of our food products, our natural wealth, our health, our energies, our labor, or very lives. It means putting more efficiency in everything we do so that each unite of money, energy and intelligence may accomplish the utmost.

"Patriotic economy does not mean the low-

ering of America's standard of living, which would make us less efficient physically and mentally, nationally and individually, and would kill the spirit and the will to do the truly self-sacrificing things to be done.

"Cities and communities must go on with their civic improvements. Road building and public works must proceed, railroad must renew their equipment. Factories must be kept going to their full capacity. Labor must be employed. Homes must be kept up. Merchandise must be produced, distributed, and used."

DANGEROUS OPTIMISM.

The young and inexperienced contractor is very likely to think that if he can figure a profit of 15 per cent. above the cost of all labor and material he is very safe and prosperous. Perhaps he will make money on some contracts with this margin, but the time will surely come when accident, delayed payment, strikes, a rise in prices, and various contingencies will wipe out all the margin and far more, and lucky he is if it does not entirely ruin him. This is particularly the case with a capable foreman accustomed only to earning wages, but who knows the cost of labor and material. A small profit looks relatively large to him and he is prone to invest his savings in a contract taken far below the proper price. If he can carry through at all he may feel that he has made money because by working twice as hard as usual he has secured fair or even extra wages, although in reality he has been up against a losing proposition. Such men perennially replacing those that have failed pour out year after year their capital on the altar of low contract prices and serve to perpetually keep prices below their proper level and maintain an unhelathly competition.—Contracting.

"UNCLE SAM'S" TERMS PLEASE PATRIOTIC BUILDERS.

As is perhaps the case with building contractors all over the country, members of the Pittsburgh Builders' Exchange are still discussing the Fee Schedule adopted by the Federal Government, for building construction which may be done for the Government in connection with the war preparations. Some builders believe the fees are not sufficient, but the enthusiastically patriotic builder and contractor—and he is vastly in the majority, says he is perfectly willing to work for Uncle Sam on the profit basis the old gentleman has decided upon. The schedule of fees follows:

If the cost of the work is under \$100,000 a fee of 10 per cent. of such cost; on work costing over \$100,000 and under \$125,000, a fee of \$10,000; over \$125,000 and under \$255,000, a fee of 8 per cent; over \$250,000 and under \$266,600, a fee of \$20,000; over \$266,600 and under \$500,000, a fee of 7 1/2 per cent.; over \$500,000 and under \$536,000, a fee of \$37,500; over \$536,000 and under \$3,000,000, a fee of 7 per cent.; over \$3,000,000 and under \$3,500,000, a fee of \$210,000;

over \$3,500,000, a fee of 6 per cent. The total fee to the contractor shall in no event exceed the sum of \$250,000, anything in the agreement to the contrary notwithstanding. The decrease in overhead expense, as the size of the contract increases, is given as the reason for fixing a final upset limit of \$250,000 on all fees.—Realty.

SALT FOR WOOD PRESERVATION.

Many methods are commonly used for the preservation of wood and preventing attacks of rot. The majority of these, such as chloride of zinc and the sulphate of copper treatment, are comparatively expensive, and are applicable therefore only to the better grades and classes of lumber and timber. They are generally used by the large industrial works and are not suitable for private use. According to the "Timber Trades Journal" there is a more economical method being experimented with in Scandinavia. This method employs common salt, as it has been discovered that impregnating the wood with this substance preserves it against decay. The effects of the action of common salt on wood were first noticed at the Great Salt Lake, in Utah. It was observed that the sleepers of a railway line which was continually washed by the very salt waters of the lake needed no renewal, and after forty-three years were in a far better state of preservation than oak sleepers impregnated with expensive chloride of zinc after fourteen years, when these latter require renewal. In consequence of this discovery comprehensive experiments have been made of the effect of salt impregnation of wood, and entire success is reported.

BLASTING WITH LIME.

One of the greatest forces produced by chemical action is that which is generated by the swelling of quicklime, or unslacked lime, when it is brought into contact with water. The lime, when wet, swells with a force that is almost irresistible. Many engineers have worked on methods to make use of this force, but it has never been practically applied until recently. Not long ago it was necessary to demolish a number of stone pillars twenty feet high and twelve feet square, in a factory. Dynamite was impracticable on account of the proximity of valuable machinery. Holes were therefore drilled in the pillars and filled with quicklime, upon which water was poured. The mouths of the holes were closed by tamping. In twenty minutes, as the lime swelled, these great pillars split and broke in all directions.

FIREPROOFING PAPER.

A patent was recently awarded in England on a method of fireproofing paper. According to this process the material is rendered non-inflammable by means of sodium aluminum carbonate. In circumstances where the proofing agent cannot conveniently be precipitated in situ, may be treated by mixing or coating with a preparation of the double carbonate.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores and Apartments (alt. and add.), Broad and Allegheny avenue. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Crumbie Bros., on premises. Brick, terra cotta and stucco, 3 stories, 65x160 feet, tile and tin roofs, cement, hardwood and composition floors, steam heating, electric lighting, tile and marble work, metal lath (painting, glazing, gas and electric fixtures, refrigerator, kitchen cabinets, gas ranges and hot water heaters reserved by owners. Architect has received revised bids.

Residence (alt. and add.), Sixty-fourth avenue and Sixth street, Oak Lane, Philadelphia. Architect, Clarence L. Caspary, 2133 North Eighteenth street, Philadelphia. Owner, M. M. Marks, 6406 North Sixth street, Oak Lane, Philadelphia. Stone, frame and stucco, 2 stories, rear addition, 18x22 feet; garage on first floor, slate roof, cement and pine floors, hot water heat, electric lighting. Plans in progress. Ready for bids in a month.

Power House, Girard Point, Philadelphia, \$12,000. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Concrete, 1 story, 30x50 feet, slag roof, concrete floors, rolled steel sash. Owners taking bids, due August 14th. Thos. C. Trafford, 1613 Sansom street; Robert E. Lamb Co., 1314 Arch street; Metzger & Fisher, Otis Building; Roydhouse-Arey Co., 112 North Broad street; Fred A. Havens & Co., 845 North Nineteenth street; Brann & Stuart Co., Commercial Trust Building; Armstrong & Latta Co., Land Title Building; John N. Gill & Co., Otis Building; Irwin & Leighton, 126 North Twelfth street; Milton S. Grawl, Bulletin Building, Philadelphia, and J. S. Rogers Co., Moorestown, N. J., are figuring.

Miscellaneous and Shop Building, Girard Point, Philadelphia. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and stucco, 1 story, 50x90 feet, slag roof, steam heat, electric lighting, marble work, rolled steel sash, concrete and pine floors, metal lath, roof ventilators, dampproofing. Owners taking bids, due August 14th. Thos. C. Trafford, 1613 Sansom street; Robert E. Lamb Co., 1314 Arch street; Metzger & Fisher, Otis Building; Roydhouse-Arey & Co., 112 North Broad street; Fred A. Havens & Co., 845 North Nineteenth street; Brann & Stuart Co., Commercial Trust Building; Armstrong & Latta, Land Title Building; John N. Gill & Co., Otis Building; Irwin & Leighton, 126 North Twelfth street; Milton S. Grawl, Bulletin Building, Philadelphia, and J. S. Rogers Co., Moorestown, N. J., are figuring.

Rectory (alt. and add.), Orianna and Brown streets. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Agnes' R. C. Slovak Church, Rev. J. J. Novorolsky, 732 North Fourth street, Philadelphia.

Brick and stone, 3 stories, 20x35 feet; two-story addition, 18x35 feet, slag roof, pine floors, waterproofing, ornamental iron work (heating, plumbing and lighting reserved). Architect taking bids, due August 9th. Melody & Keating, 1322 Race street; Anthony Ziernicki, 1632 Hunting Park avenue; D. W. O'Dea, 5227 North Fifth street; John McShain, 1610 North street, Philadelphia; Fred H. Kaiser, Pottstown, Pa., are figuring.

Residence (alt. and add.), 322 South Sixteenth street, Philadelphia. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Dr. Charles B. Worden, on premises. Brick, third and fourth story rear addition, slag roof, plumbing, electric lighting, pine floors, carpenter and millwork. Architect has received bids.

Loft Building, Front and Poplar streets, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner, Simon Weil, 837 North Third street, Philadelphia. Brick, 5 stories, 65x155 feet (slow burning), slag roof, steam heating, electric lighting, elevator, fire doors, fire towers, sprinkler system, waterproofing. Architect taking bids on heating, electric work, sprinklers, painting and glazing.

Freight House No. 4 (add.), Noble and Newmarket streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal Philadelphia. Brick and steel, 1 story, 83x130 feet, slag roof, pine floors, rolled steel sash. Owners taking bids, due August 10th. H. E. Baton, 1713 Sansom street; F. W. Van Loon, Denekla Building; Metzger & Fisher, Otis Building; A. L. Carhart, Hale Building, and F. A. Havens Co., 845 North Nineteenth street, are figuring.

Garage, Philadelphia Depot, Peltz street and Schuylkill avenue. Architect, C. E. Bolter, Philadelphia Depot, Philadelphia. Owners, U. S. Government, Schuylkill Arsenal, Peltz street and Schuylkill avenue. Brick, 1 story, 102x52 feet and 17x28 feet, asphalt roof, cement and pine floors (heating, lighting and gasoline storage system reserved), hollow metal skylights, roof ventilators. Low bidders, Wills Ludwick & Co., 34 South Seventeenth street, Philadelphia, \$10,983.

Garage (alt. and add.), 341-49 North Fifty-seventh street, \$10,000. Architect, private plans. Owners, Duffy & King, 302 North Frazier street, Philadelphia. Brick, 1 story, 75x150 feet, slag roof, cement floors, steam heating, electric lighting. Owners will build.

Office, Garage and Stable, Allegheny and Glenwood avenues. Architect, Fred T. Uezell, 147 North Third street, Philadelphia. Owners, F. J. Wittmaier & Son, 917 Tioga street, Philadelphia. Brick, 2 stories, 18x26 feet; 1 story, 18x20 feet, and 2 stories, 18x80 feet, slag roof (steam or hot water heating reserved), electric lighting, cement floors, tile work, concrete work, gasoline storage system. Architect taking bids, due August 8th.

Henry P. Schneider, 3713 Old York Road; A. R. Raff Const. Co., 1635 Thompson street, and Harry Brocklehurst, 512 West Norris street, are figuring.

Garage Crematory, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, 2 stories, 17x40 feet, slag roof, plumbing, electric lighting, concrete floors, iron stairs, waterproofing. Low bidders, Metzger & Fisher, Otis Building, Philadelphia, \$13,400.

Garage, 2623-25 West Huntingdon street, Philadelphia. Architect, Amos W. Barnes, Hermit and Righter streets, Roxborough. Owner, Leo F. Smith, 2600 Huntingdon street. Brick, 1 story, 30x100 feet, slag roof (plumbage system reserved), cement floor. Architect taking bids, due August 8th. Lam Building Co., 1001 Wood street, Philadelphia, are figuring.

Paving, Etc., Francis and Shirley street, and **Baseball Back Stop,** Twenty-sixth and Morris streets. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Board of Recreation, Room 587, City Hall. Cement sidewalks, armored concrete curbing and sodding and construction of baseball backstop. Owners ready for bids, due August 14th. Plans at architect's office.

Stable and Riding Academy (alt. and add.), Twenty-first and Ludlow streets. Architect, Wm. C. Prichett, Jr., 416 Walnut street, Philadelphia. Owners, John J. Short & Bros., 131 North Twenty-first street, Philadelphia. Brick and steel, 4 stories, one-story addition, 180x64 feet, slag roof, pine floors, electric lighting, hollow metal skylights, fire doors (elevator, repairs reserved). Architect taking bids, due August 9th. Smith-Hardican Co., 1606 Cherry street; George & Borst, 277 South Eleventh street; H. E. Grau Co., 1707 Sansom street; F. L. Hoover & Sons, 1023 Cherry street, and James H. Wells, Otis Building; E. R. Hall, 34 South Seventeenth street.

Store, Frankford avenue and Rhawn street, Philadelphia. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, Estate of Samuel Cooper, care of architect. Brick, 3 stories, 16x64 feet, slate and slag roof, composition and pine floors. H. E. Grau Co., 1707 Sansom street, taking sub-bids, due August 9th.

Almshouse (alt. and add.), Pulaski avenue and Rittenhouse street, \$2,500. Architect, private plans. Owners, Germantown Almshouse, Pringle Borthwick, President Board of Managers, 8018 Germantown avenue. Enclosed porches (2), brick and stone, slag roof, pine floors. Owners taking bids, due August 8th at 5 P. M. Wm. J. Gruhler Co., 219 East High street; Wm. C. Wright, 22 Harvey street; George C. Fossell, 5606 Utah street; Fred Elvidge & Son, 5522 Germantown ave-

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nue, and Stokes Bros., 6723 Musgrave street, are figuring.

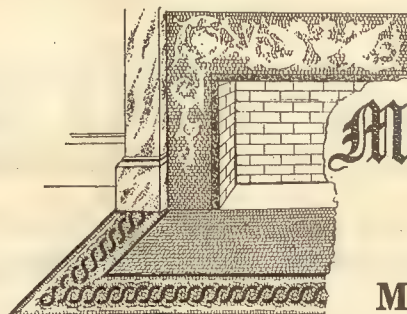
Quarters for Radio Operators, Philadelphia, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Frame, steam heating, electric lighting, wood floors. Owners ready for bids, due August 20th.

Asphalt Plant, Office Building, Etc., Nicetown Lane and Whitaker avenue. Architect, private plans. Owners, Mack Paving and Const. Co., on premises. Asphalt plant, 1 story, reinforced concrete; office building, 1 or 2 stories, brick. Plans in progress. Too early for details. Owners will build.

Garage (add.), Mt. Airy and Germantown avenues. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, E. P. Rotzell, 7200 Germantown avenue. Brick, 1 story, 50x106 feet, slag roof, cement floors, hot water heating, electric lighting, hollow metal skylights. Plans about completed. Architects and owner ready for sub-bids after August 7th.

Residence and Garage, Twelfth street, above Sixty-ninth avenue, Philadelphia. Architect, John H. Rothwell, Geneva avenue and Westford Road, Olney, Philadelphia. Owner, Chas. Dapp, 6916 York Road, Philadelphia. Brick and stucco, 3 stories, 46x35 feet, and 1 story, 14x22 feet, asphalt shingle roof, concrete, oak and pine floors (heating, plumbing and lighting reserved), tile and marble work, hollow tile, metal lath. Architect taking bids, due August 10th. Specht & Sperry, Heed Building; F. L. Hoover & Sons, 1023 Cherry street; Samuel H. P. Read, 6215 Park avenue, Oak Lane, Philadelphia; C. L. Hemmerly, Melrose, Pa.; J. Renton White, Melrose, Pa., are figuring.

Garages and Machine Shop, 5317 German-town avenue, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Charles Y. Scully, 5352 Germantown avenue. Brick. Garages, 1 story, 21x90 feet; machine shop, 1 story, 15x15 feet and 20x20 feet, slag roof, steam heating, electric lighting, cement floors. Plans completed. Owner will build.



Both Phones

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Factory (add.), Seventeenth and Cambria streets, Philadelphia, \$40,000. Architect, Conrad F. Neff, Otis Building, Philadelphia. Owners, Electric Service and Supply Co., on premises. Brick and concrete, 3-story addition, 60x100 feet, slag roof, concrete floors, steam heat, rolled steel sash, fire doors, ornamental iron work, metal lath (lighting reserved). Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Store (alt. into 3 Stores), Broad and Ridge avenue, \$6,000. Architect Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owner, D. C. Donoghue, 421 Mt. Airy avenue, Chestnut Hill, Philadelphia. Steel, 2 stories, 16x54 feet, 16x46 feet and 16x32 feet, tile and marble work, metal lath, metal bulks and metal ceilings. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Residence (int. alt.), Thirteenth street and Sixty-eighth avenue, Oak Lane, \$1,500. Architect, private plans. Owner, Philip D. Fowler, 1227 Sixty-eighth avenue, Oak Lane. Consists of interior alterations, hardwood floors, electric lighting, tile and marble work. Contract awarded to Wm. J. Gruhler Co., 219 East High street, Germantown.

Station "R" (alt. and add.), Kensington avenue, between Tioga and J streets, \$25,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Reinforced concrete and brick, 1 story addition, 95x33 feet, slag roof (electric work reserved by owners), hollow metal sash and skylights, fire doors, roof ventilators, waterproofing. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Stores (2), Show Room and Apartments (4) (alt. and add.), 6025-29 Germantown avenue, \$2,500. Architect, Wm. F. Koelle, Otis Building, Philadelphia. Owners, Koelle Motor Co., 5400 Germantown avenue, Philadelphia. Brick, 3 stories, 40x75 feet, slag roof, hardwood, composition and cement floors (steam heating and electric fixtures reserved), tile work, electric lighting, hollow metal skylights. Contract awarded to Albert Zellfelder, 151 South Broad street, Philadelphia.

Sales and Storage Building (new front and interior alterations), 1911 Chestnut street, \$8,000. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Joseph Habisreiter, 1604 Chestnut street, Philadelphia. Brick, stone, steel and terra cotta, 4 stories, oak and pine floors, tile and marble work, metal lath (plumbing, hot air heating and electric work reserved). Contract awarded to Wm. Chas. Doll Co., 201 North Broad street, Philadelphia.

Storage Building (alt. and add.), 1210 Arch street, \$5,000. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Moon & Busby, Forty-ninth and Market sts., Philadelphia. Brick (elevator hatchway), 9 stories, 8x10 feet, slag roof. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Warehouse, American and York streets, Philadelphia, \$70,000. Architect, E. D. Salter, 4907 Wynnefield avenue, Philadelphia. Owners, Rex & Co., Inc., 2410 North Philip street, Philadelphia. Brick (slow burning), 5 stories and basement, 52x113 feet, slag roof, cement and pine floors (plumbing, heating, lighting and elevators reserved), rolled steel sash, fire doors. Contract awarded to S. B. MacDowell

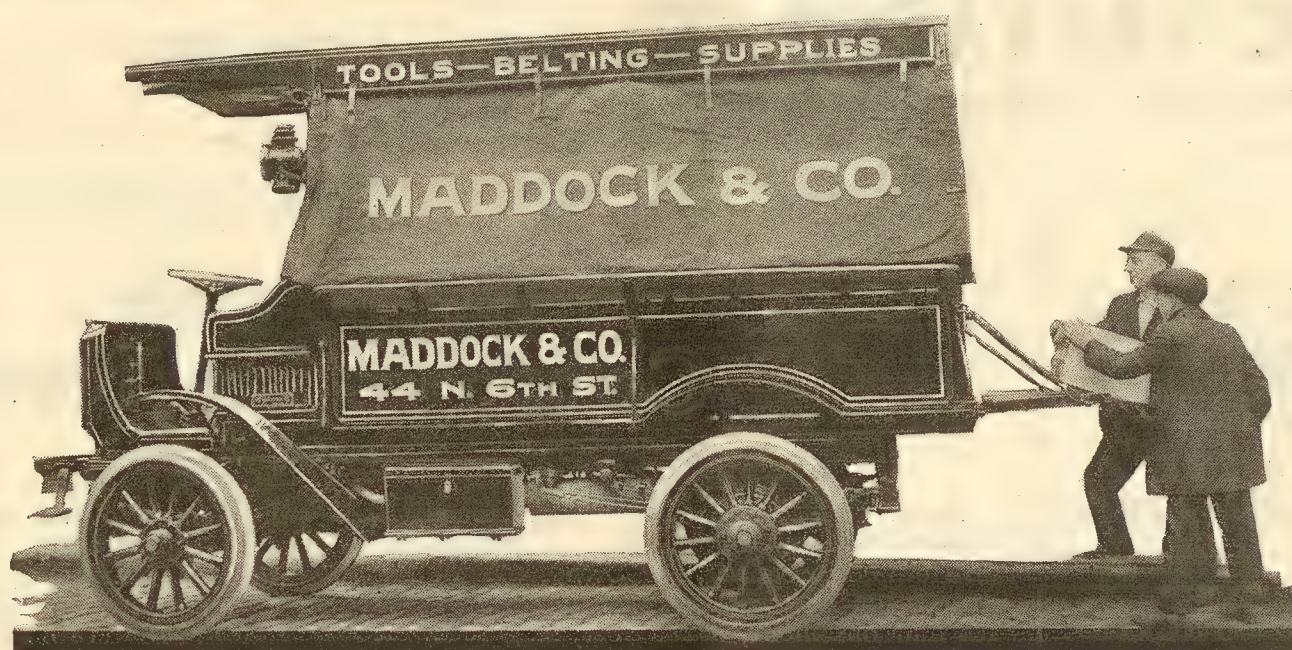
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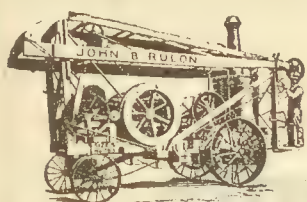
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Office, Chestnut Hill, Philadelphia, \$8,000. Architects, Brockie & Hastings, 1713 Sansom street, Philadelphia. Owner, Geo. C. Thomas, Jr., Sunset avenue, Chestnut Hill, Philadelphia. Stone, 1 story, 25x40 feet, slate roof, hot water heating, electric lighting, metal lath. Contract awarded to Wm. J. Gruhler Co., 219 East High street, Philadelphia.

Store and Dwelling, Eighty-fourth and Brunswick avenue, Philadelphia, \$3,500. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, D. Cohen, care of architect. Brick and stone, 2 stories, 16x55 feet, slag roof, pine floors, hot water heating, combination lighting, tile work. Contract awarded to Louis Shpeen, 513 Tasker street, Philadelphia.

Garage, 6808 Lincoln Drive, Philadelphia, \$1,670. Architect, E. D. Salter, 4907 Wynnefield avenue, Philadelphia. Owner, E. R. Cox, Montevista Apartments, Philadelphia. Stone, 1 story, 18x24 feet, slate roof, hot water heating, electric lighting, cement floors. Contract awarded to S. B. MacDowell & Son, 1927 Montgomery avenue, Philadelphia.

School (add.), Orianna and Earp streets, Philadelphia, \$15,000. Architect, private plans. Owners, St. Casimir's Lithuanian R. C. Church, care of Rev. J. J. Kaulakis, 336 Wharton street, Philadelphia. Brick, 1 story, 85x

49 feet, irregular, and 18x7 feet, slag roof, pine floors, steam heating, electric lighting. Contract awarded to John A. Engel, 3006 North Fifth street, Philadelphia.

PENNSYLVANIA

Construction News

Factory Building (add.) and Reconstruction of Foundry, Pottstown, Pa. Architect, A. A. Heilman, Reading, Pa. Owners, Light Manufacturing Co., Pottstown, Pa. Brick, 2 stories and basement, 50x30 feet, slag roof, electric lighting. Architect taking bids, due as soon as possible. Charles Schiegel, Reading, Pa., and F. H. Kaiser and Wm. H. Wiand, both of Pottstown, Pa., are figuring.

High School (add.), Abington, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School Board of Abington Township, W. F. Woolley, secretary School Board, Jenkintown, Pa. Stone, 2 stories and basement, 50x70 feet, slate roof. Plans about completed. Architects ready for bids in a week.

Office Building, Conshohocken, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, A. Talone, Conshohocken, Pa. Brick, marble trim, 2 stories, 30x70 feet, slag roof, terrazzo and pine floors, hot water heating, electric lighting, metal ceilings. Architect has received bids.

Residences (2), Ardmore Park, Montgomery County, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, John C. Norton, Ardmore, Pa. Stone, frame and stucco, 2½ stories, 18x38 feet, asphalt shingle roof, hot water heating, electric lighting, tile work, pine floors. Plans about completed. Ready for sub-bids in a week.

Stable, Glenolden, Delaware County, Pa. Architect, private plans. Owners, H. K. Mulford Co., 428 South Thirteenth street, Philadelphia. Frame, 2 stories, 30x101 feet and 30x40 feet, asbestos shingle roof. Owners taking bids on lumber and carpenter work as soon as possible. The following are figuring: Thos. M. Seeds, Jr., Co., 1207 Race street; Graham-Campion Co., Otis Building; Robert E. Lamb Co., 1314 Arch street; Roydhouse-Arey Co., 112 North Broad street, and Standard Const. Co., 1713 Sansom street, all of Philadelphia.

Garage and Boiler Room, Glenolden, Pa. Architect, private plans. Owners, H. K. Mulford Co., 428 South Thirteenth street, Philadelphia. Hollow tile and stucco, 1 story, 50x22 feet, asbestos shingle roof, cement floors. Plans about completed. Owners ready for bids.

Church, Reading, Pa., \$6,000. Architect, private plans. Owners, Seven Day Adventists, care of Mr. Van Buskirk, 1116 Mulberry street, Reading, Pa. Stucco, 1 story, rubberoid roof,

pine floors, hot air heating, electric lighting. Plans in progress.

Garage, Harrisburg, Pa. Architect, private plans. Owners, Penn-Mar Auto Co., care of I. W. Dill, 1135 Mulberry street, Harrisburg, Pa. Brick and reinforced concrete, 4 stories, 35x100 feet, slag roof, cement floors. Owners taking sub-bids.

School, Boyertown, Pa., \$75,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board of Boyertown, Boyertown, Pa. Brick and stone, 2 stories and basement, 140x71 feet, slag roof, steam or mechanical warm air heating, electric lighting, hollow metal skylights, kalamein doors, roof ventilators, waterproofing. Owners taking bids, due August 14th at 8 P. M. Beard Const. Co., Reading, Pa., is figuring.

Nurses' Home (alt.), North Sixth street, Reading, Pa., \$2,500. Architect, Arthur A. Heilman, Reading, Pa. Owners, Homeopathic Hospital, on premises. Consists of general interior alterations, 2 stories, electric lighting. Plans in progress.

Garage, Womelsdorf, Pa. Architect, C. J. Young, Reading, Pa. Owners, Womelsdorf Motor Car Company, care of George W. Hix, Womelsdorf, Pa. Brick and concrete, 1 story, 46x220 feet, Barrett roof, steam heat, electric lighting, yellow pine floors, fire doors, metal lath, waterproofing (gasoline storage system reserved). Architect taking bids, due August 15th. Daniel H. Hunter, Chas. Schlegel, Adam P. Spotts, Beard Const. Co., L. H. Foelt & Son, and H. J. Raudenbush, all of Reading, Pa., are figuring.

Garage and Stores, Seventh and Parker streets, Chester, Pa., \$3,500. Architect, Horace Jackson, 1115 Kerlin street, Chester, Pa. Owner, Wm. E. Headley, Chester, Pa. Brick, 1 story, composition roof, hot water heating, electric lighting, pine floors. Architect taking sub-bids.

Residences (3), Front and Norris streets, Chester, Pa. Architect, private plans. Owner, RRale Alexander, 1231 West Front street, Chester, Pa. Brick, 2 stories, 14x23 feet, slag roof, pine floors. Owner will build.

Poultry Houses, Doylestown, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owners, National Farm School, Doylestown, Pa. Poultry house, stone and frame, 1 and 2 stories, 20x224 feet; brooder house, frame, 1 story, 24x106 feet; movable colony houses (15 or 20), frame, 1 story, 8x8 feet, shingle roofs, cement and pine floors

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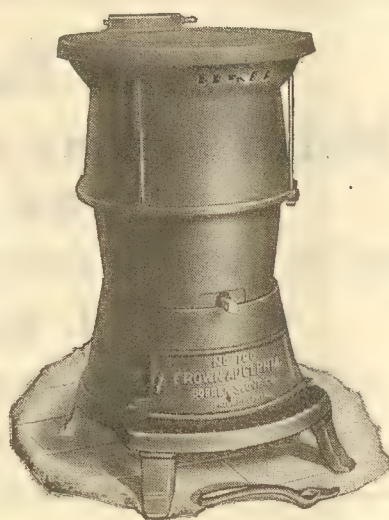
Residence, Plymouth Township, Pa. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, W. Findlay Brown, Pennsylvania Building, Philadelphia. Stone and frame, 2½ stories, 81x40 feet (heating and plumbing reserved), vapor vacuum heating, electric lighting, tile work, hardwood floors. Architects taking bids, due August 11th. Wm. R. Dougherty, 1610 Sansom street; Wm. J. Gruhler Co., 219 East High street; Alfred James, Bala, Pa.; Oscar Freas, Conshohocken, Pa.; Frank R. Heavener, Norristown, Pa.; J. Sims Wilson Co., 1125 Brown street, Philadelphia, are figuring.

Residence, Moylan, Pa. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, Howard W. Underwood, Commercial Trust Building. Stone, frame and plaster, 2½ stories, 30x48 feet and two wings, 12x20 feet, slate roof, hardwood floors, vapor heating, electric lighting, tile work (foundation work reserved by owner). Plans in progress. Architect ready for bids in ten days.

Garage, City Line and Bryn Mawr avenue, Bala, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, Howard E. Pepper, on premises. Stone, 1½ stories, 27x28 feet, tile roof, cement and pine floors, metal lath (heating and gasoline storage system reserved), electric lighting. Architect has received bids.

Residence and Garage, Ridley Park, Pa. Architects, Hulme & Dull, 1524 Chestnut street, Philadelphia. Owner, C. F. Turner, 30 West Hineckley street, Ridley Park, Pa. Hollow tile and stucco, 2 stories, 45x23 feet, and 1 story, 13x19 feet, tin roof, hot water heating, electric lighting, tile and marble work, pine floors. Architect taking revised bids, due August 9th. Wills-Ludwick Co., 34 South Seventeenth street; J. D. Durnall, Swarthmore, Pa., and J. Howard Roberts, Lansdowne, Pa., Milton Starr Grawl, Bulletin Building, Philadelphia, are figuring.

Residence, Bell Mills Road, Chestnut Hill,



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Pa., \$25,000. Architect, G. Edwin Brumbaugh, Real Estate Trust Building. Owner, Mrs. John F. Keator, 218 West Walnut Lane. Stone and frame, 2½ stories, 40x60 feet and 20x30 feet, shingle roof, hardwood floors, tile work (hot water heating, plumbing and electric work reserved). Plans about completed. Architect ready for bids in a week.

Home Building, Power House and Tunnel, Lansdowne avenue and Garrettford Road, Lansdowne, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, New St. Vincent's Home, care of Most Rev. Archbishop E. F. Prendergast, Eighteenth and Race streets, Philadelphia. Brick, stone, steel, reinforced concrete, hollow tile and terra cotta, 3 stories and basement, 320x235 feet (irregular). Power house, 2 stories, 73x80 feet, slate, tile, slag and copper roof, cement, asphalt, composition, maple and pine floors, terrazzo work, rolled steel sash, copper skylights, fire doors, iron stairs, enameled brick, steam heating, electric lighting, tile, marble, metal lath, 2 elevators, waterproofing, ornamental iron work. Architect taking revised bids, due August 14th at 4 P. M. The following are figuring: Doyle & Co., 1519 Sansom street; Melody & Keating, 1322 Race street; Cramp & Co., Denekla Building; Wm. R. Dougherty, 1610 Sansom street; R. C. Balinger & Co., 218 North Thirteenth street; John R. Wiggins & Co., Inc., Otis Building; A. R. Raff Const. Co., 1635 Thompson street, all of Philadelphia; Thompson-Starrett Co., 49 Wall street, New York City, and Amsterdam Building Co., 140 West Forty-second street, New York City.

Garage, Third and Fulton streets, Chester, Pa. Architect, Maurice Golden, Crozer Building, Chester, Pa. Owner, Morris Schwartz, 315 Fulton street, Chester, Pa. Brick, 2 stories, 39x128 feet, slag roof, concrete and pine floors, steam heating, electric lighting. Architect taking bids, due as soon as possible. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

Store (alt.), 613-15 Edgemont avenue, Chester, Pa. Architect, Maurice Golden, Crozer Building, Chester, Pa. Owner, Frank Berman, on premises. Consists of store front, 1 story, 36 feet, metal bulks. Plans in progress.

School, Ashland Heights, Montgomery County, Pa. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, Superintendent of Schools, Ardmore, Pa. Stone, hollow tile and stucco or brick veneer, 1 story and basement, 158x172 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash, skylights, fire and kalamein doors, metal lath,

roof ventilators, metal weatherstrips, waterproofing, dampproofing, wire work, ornamental iron work (plumbing, heating, ventilating and electric work reserved). Architect taking revised bids, due August 15th. The following are figuring: James H. Wells, Otis Building; E. J. Hedden, Finance Building; Wills-Ludwick Co., 34 South Seventeenth street; Wark-Yardley Co., 1737 Filbert street; John V. Speth & Co., 1714 Sansom street; Barclay White & Co., 1713 Sansom street; A. L. Fretz & Son, Heed Building; Raith Const. Co., 304 West Master street; Wm. H. Eddleman & Sons, 453 Green Lane; H. E. Baton, 1713 Sansom street, Philadelphia; Frank Mahan, Ardmore, Pa.; Mowrer Bros., Merion, Pa.

Club House, Edge Hill, Montgomery County, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Lu Lu Temple Country Club, Fitzwatertown, Montgomery County, Pa. Stone and frame, 2 stories and basement, 84x204 feet and two wings, 30x70 feet, shingle or slate roof, steam heating, electric lighting, tile and marble work, oak, cement and composition floors, metal lath, waterproofing. Plans completed. Architect ready for bids in a few days.

Office Building and Garage, Cherry street, below Elm street, Norristown. Architect, H. P. Friend, Inc., Boyer Arcade, Norristown, Pa. Owners, Bell Telephone Co., Norristown, Pa. Brick, 1 and 3 stories, 40x60 feet and 50x80 feet, slag roof, steam heating, electric lighting, cement and pine floors, gasoline storage system (brick and concrete work and excavating reserved). Architect sub-letting.

Garage, Cherry street, below Elm street, Norristown, Pa. Architect, H. P. Friend, Inc., Boyer Arcade, Norristown, Pa. Owners, Counties Gas and Electric Co., Norristown, Pa. Brick, 1 story, 60x70 feet, slag roof, steam heating, electric lighting, cement floors (brick and concrete work and excavating reserved), gasoline storage system. Architect sub-letting.

Store Building, East Main street, Coatesville, Pa. Architect, L. Zenis Slawter, Coatesville, Pa. Owner, Carl Rauscher, Coatesville, Pa. Brick, 1 story, 45x50 feet, slag roof, pine floors, hot air heating, electric lighting. Plans in progress.

Residence (alt.), southwest corner of Bowman avenue and Valley Road, Merion, Pa. Architect, Stanford B. Lewis, Stephen Girard Building, Philadelphia. Owner, Robert A. Neely, 1011 Chestnut street, Philadelphia. Stone and frame, 2½ stories, consists of general alterations and removal of house from present location. Contract for removal awarded to Christian Dear's Sons, 227 Northeast Boulevard. Plans for alterations in progress. Architect will take bids in two weeks.

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Store Building, South First avenue, Coatesville, Pa. Architect, L. Zenis Slawter, Coatesville, Pa. Owner, L. Trachtenberg, Coatesville, Pa. Brick, 3 stories, 40x60 feet (steam heating reserved), electric lighting, roofing undecided, pine floors. Plans in progress.

Store and Apartments (alt. and add.), Coatesville, Pa. Architects, McGinnis & Slawter, Coatesville, Pa. Owners, Harry & Cohen, Coatesville, Pa. Brick, 2 stories, 40x120 feet, slag roof, steam heating, electric lighting, tile work, yellow pine floors. Owner taking bids, due August 10th. Westley Beard & Son, Westley Nields and Joseph Elcessor, all of Coatesville, Pa., are figuring.

Rectory, Coatesville, Pa. Architects, Kerns & Carroll, Coatesville, Pa. Owners, Our Lady of the Rosary, Rev. Cajetan Diana, Coatesville, Pa. Brick, 3 stories, 23x37 feet, slate roof, maple floors, steam heating, electric lighting, tile work. Architect taking bids, due August 18th. Luther Wohlsen, Lancaster, Pa., is figuring.

Pennsylvania Contracts Awarded

Schools (2), Trooper and Boyer, Lower Providence Township, Montgomery County, Pa., \$6,500. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, School Board of Lower Providence Township, Montgomery County, Pa. Interior completion of present buildings (heating and electric work separate bids), pine floors, plastering, metal lath, painting, mill work, plumbing. Contract awarded to Wm. D. Lukens, North Wales, Pa.

Bridge (superstructure), New York Branch, east of Hamilton, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railroad Co., Reading Terminal, Philadelphia. Steel, concrete floors, 24 feet wide. Contract awarded

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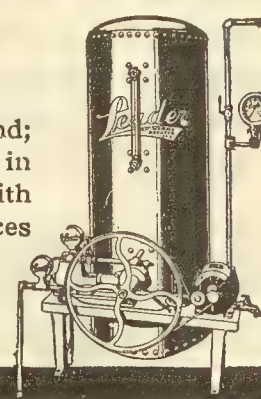
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Cooling Tower Foundation and Drip Pans, Midvale, Pa. Architect, private plans. Own-

ers, Midvale Steel Co., Widener Building, Philadelphia. Reinforced concrete, 30x31 feet. Contract awarded to Concrete Const. Co., 1618 Thompson street, Philadelphia.

NEW JERSEY Construction News

Store (alt. and add.), 2025 Atlantic avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Lorenzo Bye, Atlantic City, N. J. Brick, 2 stories, 30 feet front, combination lighting, marble work, metal bulks (wiring and fixtures, gas fitting and heating reserved), kaloroid roof, pine and hardwood floors, ornamental iron work. Owner taking bids, due as soon as possible. H. G. Scull, Sheen Building; Wilbur Beaumont, 12 South Tennessee avenue, and Charles P. Tilton, Virginia avenue, all of Atlantic City, N. J., are figuring.

Residence, Ventnor, N. J., \$7,000. Architect, Frank A. Berry, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Frame, 2½ stories, 24x42 feet, slate roof, pine and hardwood floors (heating reserved), electric lighting, tile work. Plans in progress.

Bridge, Mays Landing, N. J. Architect, Alex. Howard Nelson, Guarantee Trust Building, Atlantic City. Owners, State of New Jersey, State Highway Commissioners, Broad Street Bank Building, Trenton, N. J. Concrete and steel, 100 feet long, 35 feet wide, wood block paving, galvanized iron railing. Plans in progress.

Bridge, Lower Bank (between Atlantic and Burlington Counties), N. J. Architect, Alex. Howard Nelson, Guarantee Trust Building, Atlantic City, N. J. Owners, Burlington and Atlantic Counties, care of Alex. Howard Nel-

son, Guarantee Trust Building, Atlantic City, N. J. Steel and concrete, 1,118 feet long and 15 feet wide. Plans in progress.

Magazine Storehouses (2), Lake Denmark, N. J.; (1), Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Hollow tile and steel, 2 stories, steam heating, electric light, rolled steel sash, reinforced concrete and wood floors. Owners ready for bids, due August 27th.

Warehouse (add.), Atlantic City, N. J. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owners, Hotel Traymore, Atlantic City, N. J. Brick and reinforced concrete, 2 stories, 16x150 feet, Barrett or slag roof, fire and hollow metal doors, iron stairs, elevators, roof ventilators (lighting reserved). Architects have received bids.

School, New Brunswick, N. J. Architect, Alex. Merchant, 363 George street, New Brunswick, N. J. Owners, the Board of Education of New Brunswick, Middlesex County, N. J. Brick and terra cotta, 3 stories, 174x174 feet, slag roof, pine, chestnut, cement and composition floors, tile and marble work (heat, light, plumbing and ventilating reserved), rolled steel sash and skylights, kalamein doors, iron stairs, hollow tile, metal lath, weatherstrips, waterproofing, dampproofing, wire work, ornamental iron work. Architect has received bids.

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Masonic Temple, Irving street, Rahway, N. J. Architect, Seymour Williams, Woodruff Building, Rahway, N. J. Owners, the Craftsman Club, Rahway, N. J. Brick, 2 stories, 150x50 feet, Barrett roof, pine floors, steam heating, electric lighting, fire and kalamein doors, hollow tile, metal lath, roof ventilators, fire escapes, ornamental iron work, wire work. Architect has received bids.

Twin Residences (100 to 150), Mt. Vernon, N. J. Architect, A. Ginsburg, 11 Bloomfield avenue, Passaic, N. J. Owner, B. A. Boss, care of architect. Frame and stucco, 2 stories, 34x23 feet, composition shingle roof, steam heating, combination lighting, tile work, pine floors. Wills-Ludwick & Co., 34 South Seventeenth street, Philadelphia, taking sub-bids, due as soon as possible.

Dairy Barn, New Brunswick, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, State Agricultural College, New Brunswick, N. J. Hollow tile and stucco, 1½ stories, 38x105 feet, concrete floors, electric lighting, roof ventilators. Plans in progress.

Residence, Trenton, N. J., \$12,000. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Charles H. Carver, Fallsington, Bucks County, Pa. Hollow tile and stucco, 2½ stories, 32x43 feet, slate roof, electric lighting, tile work, hardwood floors, heating not decided. Plans in progress.

Residence (alt. and add.), Greenwood avenue, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, General E. C. Murray, Greenwood avenue, Trenton, N. J. Brick and stucco, 2½ stories, 33x44 feet, slate roof, hardwood floors, tile work. Plans completed. Architect ready for bids.

Store (alt. and add.), South Broad street, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Philadelphia Bargain Store, Henry Wirschafter, on premises. Brick, 3 stories, 35x70 feet, tin roof, steam heating, electric lighting, pine floors. Architects ready for bids.

Power House Equipment, Jamesburg, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, Board of Managers, State Home for Boys, Trenton, N. J. Consists of 2 200 H. P. boilers, chimney, 2 steam pumps, steam trap, piping. Plans completed.

Residence and Farmer's House (alt. and add.), Sommerville, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Charles W. Woorall, 725 Broadway, New York City. Frame, 2½ stories, kitchen additions (heating extension), shingle roof, concrete and pine floors, electric lighting, plumbing. Plans completed. Architect will take bids in a few days.

New Jersey Contracts Awarded

School (add.), Masonville, Burlington County, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Masonville, Masonville, N. J. Brick, 1 story (2 class rooms) (heating, plumbing and electric wiring reserved), slate roof, pine floors. Contract awarded to Jacob W. Stiles, Moorestown, N. J.

Machine and Rope Shops (adds.), Broad street, Trenton, N. J. Architect, private plans. Owners, American Steel and Wire Co., Trenton, N. J. Brick and steel, 1 story, 48x68 feet and 313x173 feet, slate and slag roofs, concrete and maple floors (steel and roof ventilators reserved). Contract awarded to James H. Morris, Broad Street Bank Building, Trenton, N. J.

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Miscellaneous Construction News

Church, southwest corner of Pennsylvania avenue and Brown street, Wilmington, Del. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owners, Church of the New Jerusalem, on premises. Stone, 1 story and basement, 79x35 feet and 53x23 feet, slate roof. Plans about completed. Ready for bids in ten days.

Bungalow, Gordon Heights, Delaware. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Geo. E. O'Connor, Wilmington, Del. Hollow tile and stucco, 1½ stories, 28x40 feet, shingle roof, pine floors, hollow tile, hot water heating, electric and gas lighting, tile work, hollow tile. Architect has received bids.

Office Building (alt.), Fourth and French streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, W. C. Phillips, Fourth and French

streets, Wilmington, Del. Consists of general interior alterations. Plans completed. Architect ready for bids.

Baking Plant (add.) and Power House, Wilmington, Del., \$75,000. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Wm. Preihofer Baking Co., Twentieth and Indiana avenue, Philadelphia. Brick, terra cotta, reinforced concrete, 3 and 4 stories, addition, 60x100 feet, slag roof, granite trimming (electric work reserved). Contract awarded to Concrete Const. Co., 1620 Thompson street, Philadelphia.

Store and Office Building, Syracuse, N. Y. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Fayette Realty Corporation, Syracuse, N. Y. Brick, 3 stories, 66x62 feet, irregular, slag roof, steam heating, electric lighting. Architect has received bids.

MARYLAND

Construction News

Administration Building, Curtis Bay, Md. Architect, James R. Edmunds, 11 East Pleasant street, Baltimore. Owners, Davison Chemical Co., Garrett Building, Baltimore. Brick, 2 stories, slag roof. Plans about completed. Owner will take sub-bids.

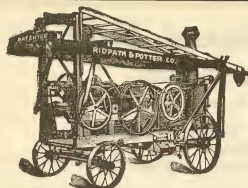
Church, Sunday School and Parsonage, Charles and Thirty-sixth streets, Baltimore, Md. Architect not yet selected. Owners, University Baptist Congregation, Inc., on premises. Work contemplated. Owners want competitive plans.

Dwelling, Towson, Md. Architect, Thomas B. Owings, 347 North Charles street, Baltimore, Md. Owner, Julian White Ridgely, care

of Mutual Life Insurance Co., Union Trust Building, Baltimore. Stone, 2½ stories, 104x50 feet, slate roof, hot water heat, electric lighting. Plans in progress.

Office Building, South Bethlehem, Pa. Architects, Wyatt & Nolting, Keyser Building, Baltimore, Md. Owners, Bethlehem Steel Co., Shouth Bethlehem, Pa. Reinforced concrete, stone, ornamental and structural steel, fireproof, hollow tile, marble, tile and terrazzo work, marble work, slag and tin roof, metal sash, millwork, steam heating, electric wiring and elevators. Architects taking bids. C. L. Stockhausen Co., Gay and Water streets, Baltimore, are figuring.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.



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MARYLAND

Contracts Awarded

Almshouse (alts.), Texas, Md., \$3,500. Architects, Emory & Nussear, 330 North Charles street, Baltimore, Md. Owners, Board of County Commissioners, Baltimore, Md. Reinforced concrete stairway, fire doors, electric work. Contract awarded to T. W. Cox, Pikesville, Md.

Toilet (alts.), Remington avenue, Baltimore, Md. Architect, Jas. A. Wetmore, Supervising Architect, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Consists of

marble work, plumbing, electric work, plastering, etc. Contract awarded to Singer-Pentz Co., Equitable Building, Baltimore, Md.

Warehouse, 105 South Eutaw street, Baltimore, Md., \$18,000. Architect, Otto Kubitz, 807 Gorsuch avenue, Baltimore, Md. Owner, Abraham J. Spear, 200 West Pratt street, Baltimore, Md. Brick, 4 stories, slag roof, electric lighting. Contract awarded to J. Henry Miller, Inc., Eutaw and Franklin streets, Baltimore, Md.

THE USE OF METAL LATH.

One can scarcely call the present demand for fireproof houses a craze, for it is the same idea which has possessed men for many generations. The knowledge and fear of fire has made everyone respect the structures which resist it to the limit, and to hope that the time would come when the same type of buildings would be the rule for residences. Whether the time is near at hand or whether it is some years off, the fact remains that the introduction of metal lath in its various styles has brought the fireproof measurably nearer.

Metal is used in a great variety of styles for lathing purposes. One may be the wire cloth, made in various sized mesh and several sizes of wire. Another form would be metal sheets perforated with holes to allow the mortar to squeeze through and form a key. In still another the sheet may be expanded

by cutting slits in it and deforming the sheet so as to leave suitable openings.

Then, again, the metal may be so formed that the sheet is quite rigid in one or both directions. This, as a rule, makes furring unnecessary when the metal is applied to a smooth or sheathed surface. Suitable devices also are provided that the metal may be attached to any surface as occasion requires.

The fact that unprotected metal is subject to corrosion makes it necessary to coat the lath under some circumstances. As a result we have plain, painted, japanned, galvanized and coppered lath, the base being any metal capable of being rolled into sheets or drawn into wire.

It was not very long before the fact was discovered and proven that the embedded metal acted as a reinforcement, and this opened up the way for the use of metal lath of a

heavier nature for use with concrete for solid partitions, walls, floors, columns and other constructions. In fact, so many uses have been found that metal lath may truly be called the backbone of concrete, stucco and plaster construction. Any attempt to enumerate the possibilities of the material would only result in omitting most of them.

The extravagant claims made for this material led to grief on the part of many manufacturers who could not always substantiate their claims. That day has gone by, however, and one would as soon expect the lumber interests to try to exploit their product under false colors as to find the metal products companies making any deliberate attempt to mislead contractors and builders on the merits of metal lath. Practically every manufacturer has elaborately prepared tables showing the properties of metal lath under various conditions, and as these tables are used every day in the calculation of floor loads, etc., they must be pretty near right.

Metal lath in a way permits a certain amount of deception as to appearance. Being entirely covered in a finished work, one must know that it is right before it is used. The appearance of a solid masonry wall coated with stucco is identical with a thin layer of the same material on metal lath. When properly used, therefore, it must be equally substantial in one place as in the other. Metal lath, with cement stucco, is suitable for the most ornamental buildings, even as its low cost makes it ideal for the temporary structure.

It goes without saying that the contractor, as well as the architect and engineer, must be thoroughly posted on the proper use of metal lath with the various forms of concrete, stucco, plaster, etc. Unless the contractor knows about these materials, how is he to talk with the owner who admires a recently erected building, and wishes one finished in the same manner. Unless he is prepared to construct another building in the same materials, how much show does he stand? Owners are rather particular about giving out contracts to those who hesitate, and the only way to get the owner's confidence is to be able to tell all about the material right off the reel.

When we talk of substitutes, it is sometimes difficult to tell which is the original material. Metal lath, to a certain extent, replaces the heavier and bulkier masonry walls, and in time there may be materials which will give metal lath a close rub for preference. Until that time comes, however, the progressive contractor will continue to use it for both interior and exterior work, keeping in mind its properties as listed by the manufacturers. The more he uses the better working knowledge he has of the material, and the better advice he can give his customers.

It used to be the idea that the plaster

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

was the only one who should know about plastering, and that he should be consulted when anything was up for discussion. That time is long past, for now the contractor is the one looked up to by the owner. Unless the contractor satisfies the owner, on the subject of metal lath and every other subject, his competitor will get the contract.

WHAT ABOUT BUILDING?

Much has been written—sometimes in worried tones, other times with too apparent optimism—as to what effect the war will have upon building construction. Before explaining why, we want to go on record in stating that the amount of building done in this country for the present year will only be limited by the ability to secure labor and materials for such work. Calamity howlers and disturbers will have no influence, because building absolutely must be done.

Our country is underbuilt in practically every direction we turn. In our cities there are not enough residences, as is proven by the uniformly high scale of rentals. Our manufacturers have not been able to keep up with the demand for products for both domestic and military uses, and will require increased facilities. This means more buildings. The conditions among railroads are so apparent to everyone as to require very little comment. Our transportation facilities are woefully inadequate, and must be expanded widely to take care of our country's needs. This will mean not only new equipment but new buildings of all kinds.

In municipal and state work, there is hardly a locality which has kept pace with the demand for improvements.

In commercial life, hundreds of new buildings will be required. Warehouses in great number will be needed to store goods of all kinds, as merchants and supply men cannot depend on hand-to-mouth buying, but must store their goods when they can get them. This applies not only to food supplies, which must be conserved as never before, but also to all general lines of merchandise.

The demand of our National Government for buildings of every type and description will be so great as in itself to almost tax the capacity of the building industry. In every part of the country these buildings will be erected in connection with training camps, arsenals, naval stations, aviation camps, supply depots and storehouses without number. These demands will of course have precedence over all others, and will call for the most efficient energies of our builders.

So we say with utmost confidence to the building world—cease talking and worrying about what are the prospects for building. Instead, turn your energies to the marshalling together of your building forces and equipment. Be prepared to be as busy as you care

to be, and, above all, arrange your organization to handle the maximum of work with the utmost efficiency, as one of your most difficult problems will be to secure adequate and competent labor.—Modern Building.

HOW ARCHITECTS MAY SERVE COUNTRY.

The American Institute of Architects has sent out, through its Central Committee on Preparedness, a circular to members of the profession telling of the needs of the United States Army, and in what manner architects and draftsmen may serve their country.

The circular in part is as follows:

"The United States Army is in greatest need of line officers, and it would be of the greatest service if the younger men of the profession, particularly those who have had military training, would enter this branch.

"The branches of the service in which an architect's training and knowledge would render him particularly valuable are the Corps of Engineers and Quartermaster Corps. In both of these there is no age limit.

"The Quartermaster Corps is primarily the business organization of the army. It has charge of the equipment, supplies, commissary, pay, transportation and building.

"The duties of the Corps of Engineers comprise reconnoitering and surveying for military purposes, including the laying out of camps; selection of sites and formation of plans and estimates for military defenses; construction and repair of fortifications and their accessories; the installation of electric power plants and electric power cable connected with sea coast batteries; construction and repair of military roads, railroads and bridges; military demolitions. In time of war within the theater of operations it has charge of the location, design and construction of wharves, piers, landings, storehouses, hospitals, and other structures of general interest, and of the construction, maintenance and repair of roads, ferries, bridges, and incidental structures, and of the construction, maintenance and operation of railroads under military control, including the construction and operation of armored trains.

"The buildings erected under the Q. M. C. comprise barracks, warehouses, hospitals, etc., of which many would be needed in time of trouble, and therefore the architect's services are particularly valuable.

"The special qualifications for members of an engineer company comprise:

"Engineers specializing in bridges, construction earth, electrical, highway, mining, railroad, sanitary, topographical, construction superintendents, topographical surveyors and sketchers, draftsmen, photographers and blueprint men, lithographers and zincographers, concrete, wharves, piers, buildings, quarrymen, miners, carpenters, bridge carpenters, blacksmiths, plumbers and pipefitters, elec-

tricians, enginemen, steam engineers, gas firemen, machinists, masons, caulkers, riggers, axemen.

"From the above it is evident that the architect can fit in somewhere in the Corps of Engineers, particularly in construction, topography, draughting, sanitary and electrical work. The architect would be in charge of much the same class of trades as he is in his professional superintendence, although military engineering technique is quite a different matter. In France many architects are engaged in translating photographs from aeroplanes into maps."

Mr. Evarts Tracy, the Octagon, Washington, is chairman of the Central Committee.

Removing Rust.

A useful method of removing rust from iron plates has been devised in the laboratory of the Consolidated Gold Fields of South Africa. A mixture of two parts of finely crushed sodium bisulphate with one part of common salt is prepared and applied to the plate in a wet condition. The mixture may be left on the plate for some time, but quicker results are obtained if it be scraped off after two or three hours and the surface scrubbed thoroughly with clean water, a wire brush being most suitable for the purpose. The treatment is repeated until the plate is clean. The process appears to be successful even on badly corroded and even pitted plates. When the plate is finished it should be washed with strong alkaline solution and dried quickly. A coating of paraffin oil is recommended to be applied promptly to prevent the starting of oxidation, after which paint can be applied.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertise!

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Fairhill and Cheltenham avenue, \$500. C. E. Lloyd (O and C), Oak Lane. Stone and hollow tile, 1 story, 18x19 feet.

Garage, Fifty-fourth and Woodland avenue, \$3,000. W. E. Gaunt (O), on premises. Samuel R. Edge (C), 5014 Willow avenue. Brick, 1 story, 18x135 feet, slag roof.

Garage, 708 Addison street, \$500. Mr. Goldstein (O), 710 Pine street. John Frendley (C), 1023 Winton street. Brick, 1 story, 19x21

feet, slate roof.

Office, Twenty-sixth street, off 45th Girard Point, \$28,960. Pennsylvania Railroad Co. (O and C), Broad Street Station. Brick, 2 stories, 26x84 feet, slate roof, steam heating.

Store, 5317 Germantown avenue, \$23,000. Charles Y. Scully (O), 5354 Germantown avenue. Wm. Hill (C), 2525 Haggert street. Brick, 2 stories, 30x85 feet, slag roof, hot water heating.

Alterations and Additions

Stores, Broad and Ridge avenue, \$6,000. D. C. Donaghy (O), Chestnut Hill. H. H. Burrell (C), 206 South Quince street. Metal bulks and partitions.

Factory, Tioga and Casper streets, \$5,000. United Gas Improvement Co. (O and C), Broad and Arch streets. Brick, 1 story, 24x18 feet, slate roof.

Garage, 1625 Passyunk avenue, \$300. Mr. Rickman (O), on premises. H. Braunstein (C), 325 Fitzwater street. Brick, 1 story, 14x9 feet, slag roof.

Apartment House, 4112 Parkside avenue, \$475. Teutonia Building Association (O), on premises. C. F. Bachler (C), 146 North Tenth street. Low pressure steam boiler.

Dwelling, 1551 North Sixtieth street, \$600. Wm. J. Reiner (O and C), on premises. Brick, 2 stories, 16x14, slag roof.

Dwelling, 27 North Sixth street and 526 Cuthbert street, \$415. Folding Box Co. (O), on premises. A. D. Gerber (C), 230 Ionic street. Cut archway for two fire doors.

Garage, Chestnut and Forty-eighth street, \$16,000. J. W. Peoples (O), 1106 Pennsylvania Building. W. Peoples (C), 1106 Pennsylvania Building. Brick, 1 story, 50x215 feet, slag roof.

Store and Dwelling, 1704-16 North Forty-second street, \$4,250. Charles Eagleson (O and C), 1005 Bailey Building. Brick, 1 story addition, 15x10 feet, and alterations.

Garage, 176 Manheim street, \$1,200. Mary Craig (O), on premises. George C. Tossel (C), 5606 Utah street. Brick, 1 story, 20x56 feet, slag roof.

Store and Dwelling, 4075 Market street, \$2,000. C. W. Galloway (O), on premises. LeRoy Smith (C), Forty-first street and Chester avenue. Brick, 1 story, 25x18 feet, plastering and alterations.

Dwelling, Chestnut Hill, \$8,000. H. W. Jeffery (O), Chestnut Hill. E. R. Hall (C), 34 South Seventeenth street. Alterations.

Store, Lancaster and Wyalusing, \$2,000. J. E. Gilbert (O), 938 North Forty-eighth street. Wm. H. Gilbert (C), 938 North Forty-eighth street. Brick, 2 stories, 15x25 feet, slag roof, and alterations.

Dwelling, 2104 North Sixteenth street, \$565. Mrs. Joyce (O), 2241 Uber street. Leo A. Niedman (C), 2007 North York street. Steam heating system.

Dwelling and Office, 1522 Locust street, \$3,300. Dr. M. Zimmerman (O), on premises. Thos. C. Trafford (C), 1613 Sansom street. Brick, 2 stories, 6x12 feet, and alterations.

Store, 916 Arch street, \$675. Getelman Bros. (O), on premises. J. Gorchov (C), 4116 Girard avenue. New bulk.

Dwelling, Ninth and Bainbridge streets, \$5,500. Harry Bernholty (O), 833 Bainbridge street. J. Gorchov (C), 4116 Girard avenue. Brick, 3 stories, 4x28 feet, and alterations.

Factory, Sixty-first and Media streets, \$3,000. F. S. Jones (O and C), 938 North Sixty-third street. Brick, 2 stories, 40x50 feet.

Store and Dwelling 338 to 46 North Third street, \$7,000. E. S. Armstrong (O), Coochis Bridge, Del. Conneen Const. Co. (C), 1737 Filbert street. Brick addition to garage in rear, 1 story, 92x61 feet, and alterations.

Office and Storehouse, Thorp's Lane, \$800. Forsythe Estate (O), 950 Drexel Building. H. MacWilliams (C), 1815 Wallace street. Fire repairs.

Saloon, Eighth and Cherry streets, \$3,500. Joe Beale (O), 359 Main street, Coatesville, Pa. Wm. Thompson (C), 1529 Filbert street. Alterations.

Storage Building, 1210 Arch street, \$5,000. Moon & Busby (O), Forty-ninth and Market streets. A. R. Raff Co. (C), 1635 Thompson street. Elevator hatchway, 8x10 feet, 9 stories.

Garage, 341 to 49 North Fifty-seventh st., \$10,000. T. C. Duffy & King (O and C), 302 North Frazier street. Brick, 1 story, 75x150 feet.

Garage, Cheltenham and Pulaski avenue, \$1,500. J. DeLong (O), Germantown. Consolidated Realty Co. (C). Brick and hollow tile partition.

Store, 261 South Second street, \$500. Edson Bros. (O), on premises. H. R. Rust (C), 19 South Eighth street. Interior alterations.

Office, 2224 and 2226 Arch street, \$2,000. Larkin Co. (O), Twenty-second and Arch streets. The Central Con. Supply Co. (C), 2224 Arch street. Brick, 1 story, 40x48 feet.

Residence, 1415 North Broad street, \$2,500. Mrs. B. Gimbel (O), on premises. The Hogg Cont. Co. (C), 1634 Sansom street. Alterations.

Dwelling, 1313 Allegheny avenue, \$1,400.

James Crumbie (O and C), on premises. Hot water heating system.

Dwelling and Garage, Sunset avenue and Norwood avenue, \$63,000. Mrs. S. W. Morris (O), Chestnut Hill. John R. Thompson (C), Real Estate Trust Building. Stone, 3 stories, 31x38 feet, slate roof, new porch first story, 10x10 feet, to garage, interior alterations.

Store and Dwelling, 814 Passyunk avenue, \$355. Grebble Estate (O), 1710 Chestnut street. William Johnston (C), 1625 South Nineteenth street. Change bulk.

Store, 905-07 Market street, \$3,000. S. Snellenburg, Twelfth and Market streets. Rath Const. Co. (C), 302 North Master street. New front, 2 stories only.

Dwelling, 1420 Walnut street, \$14,000. The Misses Biddle (O), 1326 Spruce street. Thos. Little & Son (C), 1713 Moravian street. New flush bulk, brick, 1 story side addition, 15x14 feet, and 1 story, 4x48 feet.

Dwelling, 2038 Fairmount avenue, \$730. W. C. Ringler (O), on premises. George Eves (C), 2016 Brown street. New front, brick and brownstone.

Shed, 1111-13 South Thirteenth street, \$3,000. C. A. Baldi Co. (O), Philadelphia. Pennsylvania Railroad Co. (C), Broad Street Station. Brick, 1 story, repairs.

Garage, 3025 West Clearfield street, \$680. Women's Pennsylvania S. P. D. A. (O), on premises. M. S. Oberholtzer (C), 5524 Pulaski avenue. Brick, 1 story, 16x22 feet, slag roof.

Forge Shop, 2300 East Tioga street, \$2,000. S. A. Ashman & Son Co. (O). Robert B. Lederle (C), 830 Witherspoon Building. Iron frame, 22x40 feet, slag roof.

Shipping Platform, Third and New streets, \$2,000. H. O. Wilbur & Son (O), on premises. Wm. Steel & Sons Co. (C), 34 South Fifteenth street. Shipping platform and roof.

Club Room, 2719 Kensington avenue, \$1,500. Textile Workers (O), on premises. John W. Mortimer (C), 3024 E street. Interior alterations.

Garage, 57 North Mascher street, \$500. Tatlow Manufacturing Co. (O), on premises. F. A. Havens (C), 845 North Nineteenth street. Alterations.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 24, 1917.—Sealed proposals will be opened in this office at 3 P. M. September 4, 1917, for the construction complete of the United States post office at McKees Rocks, Pa. Drawings and specifications may be obtained from the custodian of site at McKees Rocks, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

Artesian Wells.		Fireproofing.		Reinforcing Bars.	
Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.		Consolidated Expanded Metal Co., 2200 Arch st., Phila.		Trussed Concrete Steel Co., Commonwealth Bldg., Phila.	
Ridpath & Potter Co.,.....Bourse Bldg., Phila.		Pearce Fireproof Co.,.....1345 Arch st., Phila.		Witherow Steel Co., Commercial Trust Bldg., Phila.	
John B. Rulon.....1355 Colwyn st., Phila.		Trussed Concrete Steel Co., Commonwealth Bldg., Phila.		Roofing.	
Artists' and Architects' Supplies.		Floor Plates.		The Barrett Co.,.....New York City and Phila.	
Chas. H. Robbins.....125 S. 11th st., Phila.		Alan Wood Iron and Steel Co., Widener Bldg., Phila.		Roofing Slate.	
Warren-Knight Co.,.....136 N. 12th st., Phila.		Furnaces and Ranges.		C. F. Shellenberger...Builders' Exchange, Phila.	
F. Weber & Co.,.....1125 Chestnut st., Phila.		Borden Stove Co.,.....118 N. 2d st., Phila.		Roofing Tile.	
Blue Prints.		Henry M. Miller.....46-48-50 N. 2d st., Phila.		O. W. Ketcham.....Builders' Exchange, Phila.	
F. Weber & Co.,.....1125 Chestnut st., Phila.		Richardson and Boynton Co., 1342 Arch st., Phila.		C. F. Shellenberger...Builders' Exchange, Phila.	
Blue Print Paper.		Garage (Portable)		Sash Pulleys.	
Chas. H. Robbins.....125 S. 11th st., Phila.		Service Equipment Co.,.....Bourse Bldg., Phila.		Grant Pulley and Hardware Co., 3 W. 29th st., N. Y., & Land Title Bldg., Phila.	
Brick (Face, Etc.).		Gas and Gas Appliances.		Scales.	
O. W. Ketcham.....Builders' Exchange, Phila.		United Gas Improvement Co., Broad and Arch sts., Phila.		The Fairbanks Co.,.....7th and Arch sts., Phila.	
Brick Renovating.		Granite.		Sewer Pipe and Flue Linings.	
Adolph Christensen.....1433 Brown st., Phila.		Holmesburg Granite Co., Commercial Trust Bldg., Phila.		C. F. Shellenberger...Builders' Exchange, Phila.	
Builders.		Heating Contractors.		Sewage Disposal.	
Graham-Campion Co.,.....Heed Bldg., Phila.		Bowers Bros. & Co., .....1629 Ludlow st., Phila.		Harrison, Mertz & Emlen, Inc., Commercial Trust Bldg., Phila.	
Hogg Construction Co., Inc., 1634 Sansom st., Phila.		Heating Boilers.		Soundings.	
Mitchell Bros.,.....2125 Race st., Phila.		Richardson and Boynton Co., 1342 Arch st., Phila.		Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.	
Pomeroy Const. Co.,.....1609 Ranstead st., Phila.		Keystone Supply & Mfg. Co., 913 N. 9th st., Phila.		Ridpath & Potter Co.,.....Bourse Bldg., Phila.	
Builders' Supplies.		Insurance.		John B. Rulon.....1355 Colwyn st., Phila.	
P. H. Fairlamb Co.,.....115 S. 30th st., Phila.		Harris J. Latta.....Penna. Bldg., Phila.		Sprinklers.	
David France Co., Tasker st. wharf, Delaware River, Phila.		Insurance Co. of North America, 3rd and Walnut sts., Phila.		Merchant & Evans Co., 2035 Washington ave., Phila.	
Cement.		Lumber.		Structural Engineer.	
P. H. Fairlamb Co.,.....115 S. 30th st., Phila.		James E. Tague & Co., 10th and Columbia ave., Phila.		Harry C. Eisenbise Co.,.....Penna. Bldg., Phila.	
David France Co., Tasker st. wharf, Delaware River, Phila.		Marble Mosaic.		Surety Bonds.	
Lehigh Portland Cement Co., Penna. Bldg., Phila.		Belfi Bros. & Co.,.....1923 Market st., Phila.		Harris J. Latta.....Penna. Bldg., Phila.	
Columbs (Metal).		Italian Marble Mosaic Co., 433 Spruce st., Phila.		Switchboards.	
Pearce Fireproof Co.,.....1345 Arch st., Phila.		Roman Mosaic and Tile Co., 435 Green st., Phila.		Large-Dail Mfg. Co., .....606 Cherry st., Phila.	
Composition Flooring.		Metal Lath.		Terra Cotta (Architectural).	
Philadelphia Mineral Flooring Co., 5632 Summer st., Phila.		Consolidated Expanded Metal Co., 2200 Arch st., Phila.		O. W. Ketcham.....Builders' Exchange, Phila.	
The Marbleoid Co., Pennsylvania Bldg., Phila.		Pearce Fireproof Co.,.....1345 Arch st., Phila.		Test Borings.	
Dampproofing.		Trussed Concrete Steel Co., Commonwealth Bldg., Phila.		Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.	
The Barrett Co.,.....New York City and Phila.		Meters.		Ridpath & Potter Co.,.....Bourse Bldg., Phila.	
Door Hangers.		Philadelphia Meter Co., Real Estate Trust Bldg., Phila.		John B. Rulon.....1355 Colwyn st., Phila.	
Grant Pulley and Hardware Co., 3 W. 29th st., N. Y., & Land Title Bldg., Phila.		Mill Supplies.		Tile and Terrazza Work.	
Drawing Materials.		The Fairbanks Co.,.....7th and Arch sts., Phila.		Belfi Bros. & Co.,.....1923 Market st., Phila.	
Charles H. Robbins.....125 S. 11th st., Phila.		Service Equipment Co.,.....Bourse Bldg., Phila.		Italian Marble Mosaic Co., 433 Spruce st., Phila.	
F. Weber & Co.,.....1125 Chestnut st., Phila.		Nurseries.		Roman Mosaic and Tile Co., 435 Green st., Phila.	
Electrical Specialties.		The Garden Nurseries.....Narberth, Pa.		Ventilators.	
Large-Dail Mfg. Co.,.....606 Cherry st., Phila.		Paints and Varnishes.		Merchant & Evans Co., 2035 Washington ave., Phila.	
Electrical Construction.		Felton, Sibley & Co.,.....136 N. 4th st., Phila.		Wall Board.	
Baird-Osterhout Construction Co., 1620 Chancellor st., Phila.		Pipe Fittings and Valves.		James E. Tague & Co., 10th and Columbia ave., Phila.	
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A. B. See Electric Elevator Co., Colonial Trust Bldg., Phila.		James A. Vogel Co.,.....Wilmington, Del.		The Barrett Co.,.....New York City and Phila.	
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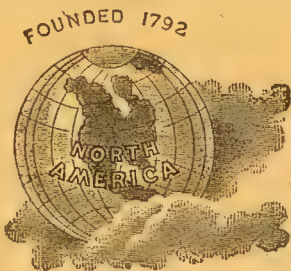
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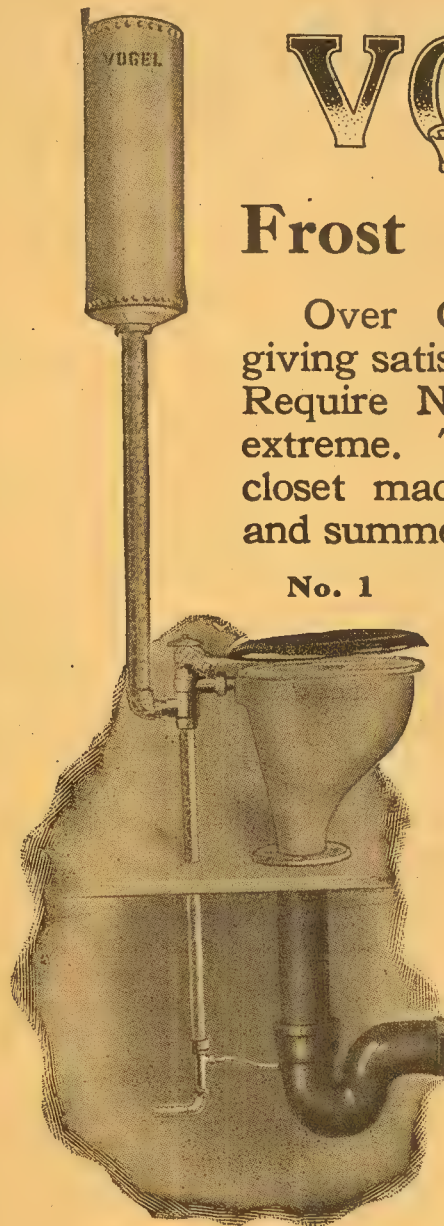
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Vol. XXXII., No. 33
August 15, 1917

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CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

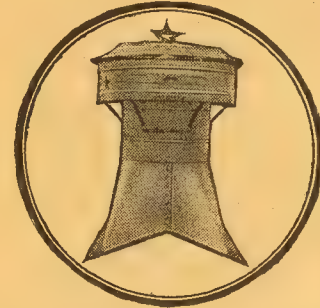
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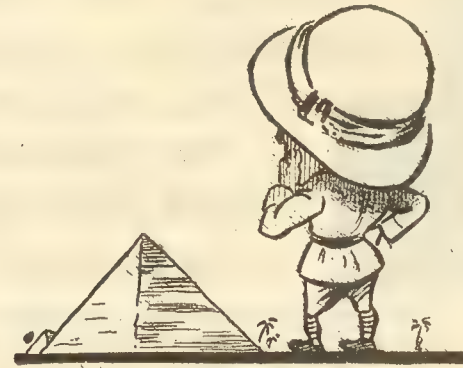
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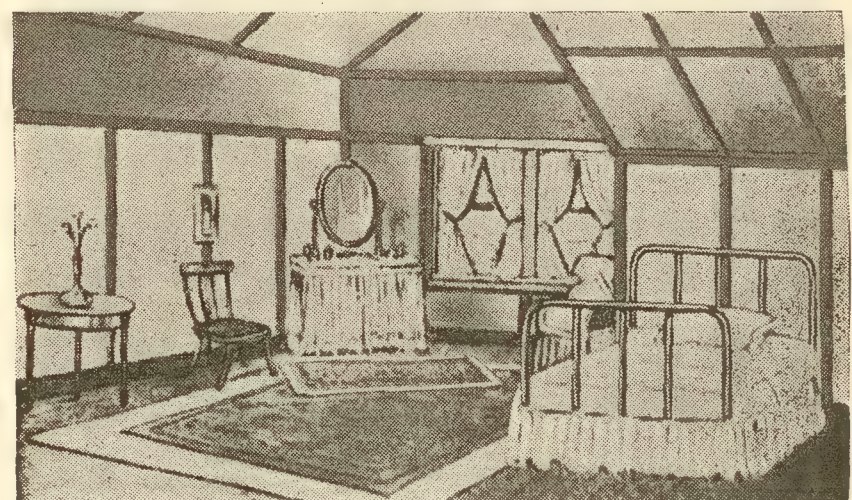
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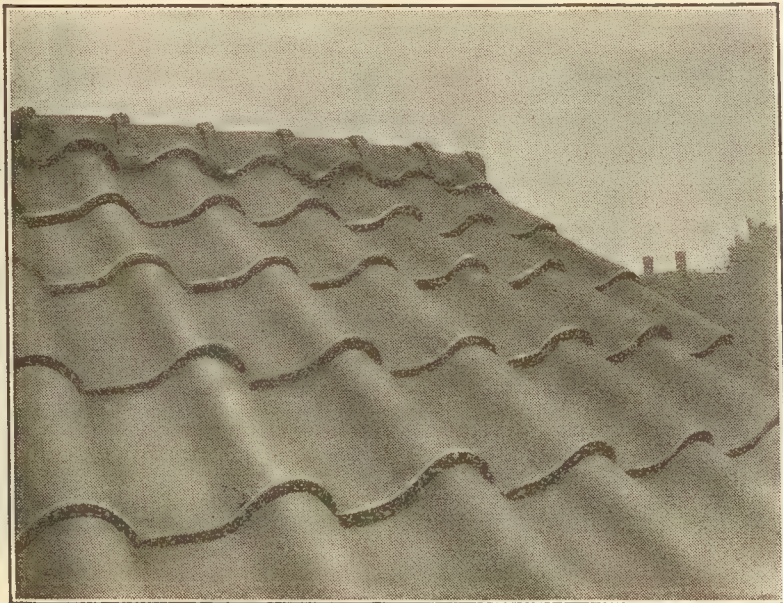
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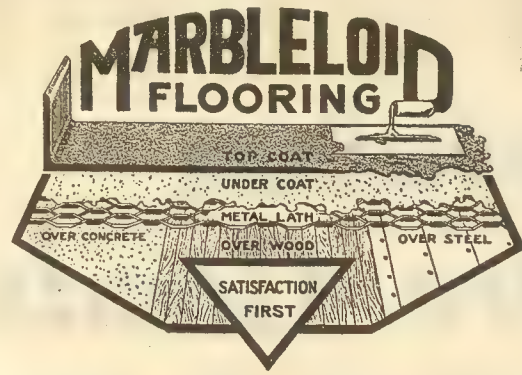
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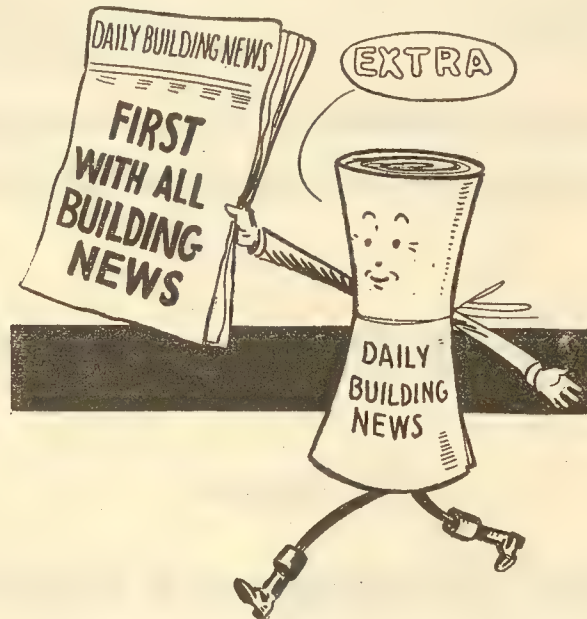
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 33

PHILADELPHIA
August 15, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide
PUBLISHED WEEKLY

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As The Editor Sees It



THE immense falling off in building activity, due to labor and materials being high and deliveries more or less uncertain, promises to bring about a slight weakening in the price position of certain lines of structural mediums. Common brick is the first of these commodities to show the effect of a constantly lessening demand. The sudden stoppage of operative building has caused the price of brick to descend. Men who observe closely the trend of the material markets expect concessions in the not distant future in other lines. Of course, no one looks for any recession in such commodities as steel and lumber. The demand for steel in governmental quarters, among munition makers and in various other avenues of military activity precludes any letting down of the prices or easing of deliveries in this material. The unprecedented demand for lumber for the new army cantonments, for the wooden ship program and for slow-burning industrial construction renders it certain that there need be looked for no immediate reduction in lumber costs.

Such reductions as are to ensue will come from among those lines the demand for which has become materially reduced by the abnormal decrease which has set in in general and operative building.

* * *

AN article on the break in the price of brick, from the *Real Estate Record*, enumerates some of

the major considerations responsible for this condition. Says the *Record*:

"The local building situation furnishes an interesting paradox that has been brought about by the descending price of common brick, while substantially all other structural commodities are either holding firmly at their established high levels, or exhibiting a decided tendency toward further advances. There is no evidence of important price concessions or weakening in other lines; in fact, these materials, especially the metal groups, are daily becoming stronger. The present brick situation certainly does not reflect the general building material market conditions, but does indicate the great extent that the local building activity has suffered through high construction costs.

"Prominent among the reasons presented for the recession in brick prices is the dearth of speculative building construction. The erection of one and two-family dwellings, tenements and high-class apartment houses is now almost a negligible quantity, and it was from these sources that the brick manufacturers and dealers anticipated a considerable amount of new business. Recent construction has consisted largely of manufacturing and commercial projects, costly residences and institutional work and reinforced concrete, stone, terra cotta blocks and timber were the materials most generally used.

SPECULATIVE builders undoubtedly have been hampered in their operations by virtue of the high cost of structural materials, scarcity of skilled and unskilled labor, and other factors that have influenced structural operations. Inasmuch as the major portion of speculative work consists of non-steel frame buildings, and, furthermore, because brick is such an important element in work of this character, it would seem as though the present time was most propitious for renewal of activities along these lines.

"Common brick is now available at a price that has not been approached for many months. There is every reason to anticipate, therefore, that the low cost of brick will stimulate activity to a remarkable degree. For the builder who will mature his plans for starting work immediately, a possibility of increased profits looms large. The opportunity is one, however, that should be availed of quickly, as there is but little prospect that the present levels will remain any great length of time, while there is a decided probability that prices will advance.

"The present situation is a temporary matter, brought about in order to allow the manufacturers to reduce the surplus stock of brick that has gradually piled up by virtue of the reduced building activity, and the assumption is that as soon as the market is cleared, the price of brick will return to approximately the \$11 level.

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"The brick production this year will undoubtedly be much less than that of former years. Brick manufacturers have had numerous difficulties to contend with through which the production capacity of the plants has been greatly reduced. This will in itself have a tendency to return the commodity to high price levels, and if the demand for the brick improves through the anticipated renewal of general building activity, prices must remain at high levels for many months."

* * *

IT will be noticed that the *Record* regards the reduction in the price of common brick as merely temporary and that it does not look for any recession in the quotations on other lines of material. But by way of offsetting this view the market reporter of the same publication remarks:

"Following the trend of the building industry there has been no life in the markets for structural materials and supplies during the week. The demand for building commodities fell off abruptly on account of the excessive heat that made work on new structures dangerous and which from a humanitarian viewpoint necessitated the temporary closing of many office and manufacturing plants.

"In the last few weeks there has been a strong tendency developing toward a weakening in the price position of various structural commodities. For a long period building materials have been firmly intrenched at extremely high levels and it seemed almost hopeless to expect a recession. At the present writing there is a definite prospect that the prices of some materials will soon exhibit a downward trend and in certain lines there has already been substantial decreases. Common brick is a notable example. The hope is universal among the building and allied trades that with lowered material costs, structural operations will be resumed and the industry in general stimulated thereby."

* * *

COMMENTING on the outlook for the operator who has the nerve not to be affected by the general depression in that field of building the same writer adds:

"There is a steadily increasing demand for rentable buildings of almost every type. New structures, if erected, would return an income that even with the present high construction costs would make their erection a profitable venture for the builder. If investors and speculative builders could only be brought to a point of realizing the necessity for these buildings and the profits to be obtained therefrom, undoubtedly a marked improvement in the building situation would immediately result. According to the number of projects on the boards in the offices of architects and structural

engineers it seems as though some owners are beginning to realize the advantages that are before them but the number is not yet great enough to create a material effect on building conditions.

"Renting accommodations are bound to be at a premium next autumn. The demand will include apartments, lofts, factories and other types of structures, and it behooves the prospective builder who intends to profit by this unprecedented demand, to make immediate provisions for commencing contemplated operations so as to be ready for the prosperous times that are sure to come."

* * *

SOME excellent suggestions, not out of key with the general spirit of the foregoing, are made by the *National Builder*. Speaking of the demand which undoubtedly exists for rentable buildings, that publication remarks:

"It's a good season to replace buildings which have outlived their usefulness. Building standards are constantly rising. A survey was recently begun by the Building Inspector of Milwaukee to find out how many structures in that city have become passe from the standpoint of safety and sanitation. A recent law of the Legislature has given him additional power to condemn dilapidated structures peremptorily. This is a good move and one in which other cities might well take a hand."

* * *

PROPERTIES in the older sections which have gone begging for tenants in recent years, owing to the greater appeal of the more modern operative dwellings, put up by the hundreds in the newer, outlying sections, now find ready occupancy thanks to the demand created by the shutting off of this competition. Rentals in the case of modern dwelling properties have increased in many cases as much as ten per cent. over normal figures. One of the curious outcomes of this advance in rentals is a considerable activity in suburban realty.

Hundreds of tenants affected by rent advances have turned to the suburbs for home accommodations on reasonable terms, many of them as buyers. Says the *National Builder*:

"Raising of rentals seems to be a favorite pastime this year among landlords. This high cost of living in a rented home has given many people the idea that it would be a good thing to build and own a home of their own. Roughly speaking, it is estimated by real estate operators that every increase of 10 per cent. in rentals will decrease the number of renters by about the same percentage. These figures apply especially when speaking of suburban

property in comparison with city apartments. In many cases the flat dweller is glad to leave behind him this additional urge to force him into the suburban districts where his inclinations have pointed the way long ago. And have you noticed that patriotism is strongest among the people who own their homes?"

* * *

THE following, on the steel situation, has a healthy substructure of common sense:

"Backed by a declaration that war demands for steel will increase and that the utmost we can produce will be below the requirements of ourselves and our allies, an urgent plea is made that steel be used for general business purposes only when the requirement is unavoidable. Lumber and concrete are strongly advocated instead and there comes the intimation that unless a steel substitute is found some manufacturers may be obliged to curtail or even suspend operations during our participation in the European conflict.

"This message goes to business men in the second of a series of war bulletins sent out by a committee of the Chamber of Commerce of the United States co-operating with the Council of National Defense.

"Steel is needed in war for ships, railroad cars and locomotives, rails, trucks, and containers, the bulletin goes on. It must be had for shells and other munitions work—requirements large in tonnage far beyond what is generally supposed. In addition, business producing government materials and supplies, the necessities of life and the materials for producing the necessities of life, require steel in great quantities for buildings, machinery, tools and containers.

"Materials which can be used in substitution for steel are plentiful in comparison. Lumber may be expected to meet all needs and cement may be had in quantity for concrete work."

* * *

THE situation is one that presents a real opportunity to the architect with ingenious ideas. Good, substantial buildings were erected long before steel construction came into vogue. It ought to be possible to do a great deal of the structural work demanded by present-day needs without drawing heavily on the already overtaxed steel industry. The problem involved is largely one of skillful and ingenious planning.

Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

EDITORIAL NOTES

Marc Eidlitz & Sons, 30 East Forty-second street, New York, have obtained the general contract for the group of dormitory buildings to be erected for Yale University at New Haven, Conn., on the entire block bounded by Elm, High, Library and York streets. The project includes the erection of seventeen one and three-story buildings and a clock tower 100 feet in height. They will be arranged in the quadrangular form typical of American university construction. The estimated cost has been placed at \$3,000,000. Plans are now being prepared by James Gamble Rogers, 470 Fourth avenue, Manhattan, who also designed the Yale Club at Vanderbilt avenue and Forty-fourth street, New York City.

The Association of Iron and Steel Electrical Engineers will hold its eleventh annual convention at the Bellevue-Stratford Hotel, Philadelphia, Pa., September 10-14, inclusive. Wednesday, September 12, will be devoted entirely to a patriotic program, with addresses to be made by army and navy engineers on matters of vital importance to the industries with which the association is identified.

The Longacre Construction Company, 11 East Forty-second street, New York City, has obtained the general contract for the reinforced concrete garage to be built at 310 to 328 West Thirty-eighth street, through to 327 to 329 West Thirty-seventh street, that city, leased several weeks ago from Colonel W. D. Mann by the United States Government, to be used for the storage of automobile mail trucks, belonging to the Post Office Department. The lease is for ten years at an aggregate rental of about \$600,000. The proposed structure will be two stories in height in Thirty-eighth street, where there is a frontage of 250 feet and three stories in height in Thirty-seventh street, where the frontage is 50 feet. The new building, which is expected to be ready for occupancy by January 1, 1918, will contain 67,750 square feet, and will house 250 trucks. Its estimated cost has been placed at \$300,000.

The National Paint, Oil and Varnish Association will hold its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

The Bishop-Babcock-Becker Company, of Cleveland, O., manufacturers of the Reliable air line and return line vacuum and vacuum heating systems, has purchased the heating and engineering department of the E. F. Houghton & Co., Philadelphia, Pa.

The American Steel Export Company, New York, has appointed Woodburn's, Ltd., Montreal, Canada, as its exclusive agents for the provinces of Ontario and Quebec.

The Vulcanite Portland Cement Company has opened an office at 161 Devonshire street, Boston, Mass. This is to give more efficient service to the steadily increasing New England trade.

The National Association of Brass Manufacturers held its summer meeting recently at the Hotel Hollenden, Cleveland. The association discussed several important matters, including freight equalization and the possibility of removing the technical specifications now applying on Government purchases of brass goods.

The Lidgerwood Manufacturing Co., 96 Liberty street, New York, has issued Bulletin No. 20, entitled "Lidgerwood Electric Hoists." It covers the standard line of electric hoists developed by the Lidgerwood Manufacturing Co., especially for general contracting work. It also shows a few of the many types of hoists they have designed and built for various hoisting duties.

E. J. Parker, manager of the Morgan Engineering Co., has joined the staff of the Vulcan Steel Products Co., 120 Broadway, New York, as sales manager of the machinery and tool department. The company contemplates opening a chain of offices in Europe, China and Japan, and Mr. Parker will leave shortly for abroad to personally conduct this work.

The Engineering Supply Company, 22 Hudson street, Jersey City, with John L. Covert as a agent, has filed a certificate of incorporation in the office of the County Clerk. The company will do a general building and engineering business. The capital stock authorized is \$50,000. The incorporators are Clarence Van Keuren, Andrew E. Nolan and John L. Covert.

The National Exposition of Safety and Sanitation will be held in the Grand Central Palace, New York, September 10-15, under the joint auspices of the American Museum of Safety and the National Safety Council.

Industrial branches of building activity are steadily gaining in volume and there are reports coming in daily from practically all parts of the United States indicating that many new projects for manufacturing and commercial purposes are being planned and placed under contract for immediate construction. High class residential construction is fairly active and there is an increasing number of moderate priced dwellings projected. Speculative building, while still far behind other types of construction in volume and cost, is nevertheless indicating signs of renewed activity and there will surely be a decided resumption along this line if material prices could be brought back to a reasonable level.

The Chicago Cement Machinery and Building Material Show will be held in the Coliseum, Chicago, February 6-13. The show will be held under the auspices of the National Exhibition Co., 123 Madison street, Chicago.

With the exception of common brick, structural material prices have remained practically stationary for the last week. The scattering fluctuations were not to an extent that would have any substantial effect upon building conditions. While material prices are exorbitant the excess cost of construction has not seemed to have influenced the type of construction that has been prevalent for the last few months. Almost without exception the structures placed under contract were absolute economic necessities and the matter of extra cost was not comparable to the urgency of the demand for working space.

The National Exposition of Safety and Sanitation will be held in the Grand Central Palace, New York, September 10-15, under the joint auspices of the American Museum of Safety and the National Safety Council.

The complications in the freight situation do not seem to be quite so acute at the present writing as they have been for some months past. The building industry, as a whole, is looking to the railroads of the country for better service than has been recently obtained. The railroads, generally, according to late reports to the Railroads' War Board, indicate a larger use from freight cars made possible by better movements and heavier loadings.

The National Municipal League will hold its twenty-third annual meeting in Detroit, Mich., November 21-24, with headquarters at Hotel Statler. For information address the secretary, Clinton Rogers Woodruff, 703 North American Building, Philadelphia, Pa.

That the building situation has generally a more promising aspect, however, is evidenced by the renewal of activity in the offices of the architects and engineers throughout the city. Recent reports from these sources indicate that both professions are engaged in the preparation of plans and specifications for new projects which, unless some unforeseen circumstances arise, should reach the active building stage in the near future. The contemplated work is general in character and includes practically all types of structures and methods of construction, with the possible exception of steel-frame buildings, which must be eliminated from present considerations on account of the difficulty of obtaining deliveries of fabricated steel and the exorbitant prices that are being charged for this commodity. With the work in prospect there is a feeling generating that the structural trades will enjoy a sufficient amount of activity along general lines to compensate for the loss entailed by the cessation of steel-frame building construction.

CHAMBER OF COMMERCE MEMBERS ASKED TO MAKE CANVASS OF UNNATURALIZED WORKMEN.

**Request Has for Its Object the Determination of Sentiments of Aliens
Towards Property Rights.**

The Chamber of Commerce is encouraging its members to make a canvass of their employees with a view to determining how many are unnaturalized residents. Many Philadelphia employers have already canvassed their workmen in this respect, but it is desired that all members of the Chamber take this step.

This registration of workmen has for its object also the discovery of whether or not any of the unnaturalized residents hold sentiments that might prompt a disregard of property rights and of the law during the continuance of the present war.

A letter on the subject has been sent to all members who employ a miscellaneous class of labor. It has been found that certain answers are necessary to complete the records of unnaturalized residents, and among the questions asked with this end in view are the following:

"How many unnaturalized workmen desire to become citizens?"

"What measures may be adopted to encourage such a desire?"

"How many speak English, so that they can be talked to directly in a crisis?"

Obligations on Employers.

Each employer at the present time is confronted with certain unusual obligations that heretofore have not obtained. If, among his workmen, there are a number of workmen of German or Austrian birth, he is concerned, naturally, with the character of the sentiments, not only toward the Government and the law, but also as to the probable respect in which they may be expected to observe his property rights.

The present situation is inducing also a more intimate study of welfare work within business establishments and the investigation of living conditions when under control of the employer.

For the purposes of this general consideration, unnaturalized employees may be broadly divided into two classes—those whose loyalty is unquestioned, and those whose expressed sentiments would indicate the existence of doubt on this score. The President of the United States has already counseled the greatest forbearance in all dealings with unnaturalized residents. From other authoritative sources has come the common-sense injunction to all aliens to "obey the law and keep your mouth shut."

Conditions May Change.

Up to the present time there have developed no reasons for a belief that serious trouble will arise in the handling of aliens in this

country—although there is no telling when changed conditions may necessitate an even more careful cataloging of such aliens with a view to the adoption of more exacting provisions in this regard. Each employer of labor must appreciate that those of his unnaturalized workmen who are of unquestioned loyalty have no immediate effective means of formally expressing that loyalty except to and through him, who stands sponsor for them. Securing naturalization papers consumes considerable time, and meanwhile there may arise conditions under which the loyal unnaturalized workman may find it difficult to point to convincing evidence of his loyalty.

As to those unnaturalized workmen who, by reason of their unwillingness to pledge themselves to a strict observance of the law, or otherwise, are to be mistrusted, it should be to the interest of their employers no less than to the Government to record at least a few pertinent facts regarding them.

Members Urged to Act.

Accordingly, the members of the Philadelphia Chamber of Commerce are being urged to give immediate consideration to such a canvass and registration. The advantages thereof should readily appeal to every employer.

Although the Chamber of Commerce does not find it practicable at this time to render direct assistance in the making of such a canvass and registration or to provide a clearing-house or centralized record of the information secured, it is convinced that its members will be impressed with the distinct immediate advantages that will result to employers generally. Moreover, if the experiences of other countries are to be followed, it is quite possible that the Government will find it expedient later to prescribe such a canvass of workmen, for obvious purposes.

There is being circulated an outline of a form on which the individual records of such a registration might be made—a form on which the signing employee is asked to pledge an observance of the law, and to record his name, his nationality and the station at which he registered as an immigrant. This latter item of information is of value in that the correctness of the signer's statement of nationality may be, with proper authority, checked against Government records should such a course be justified in certain cases.

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Once Again—Who Invented the Modern Skyscraper?

Thomas Nolan, professor of architectural construction of the University of Pennsylvania, recently delivered a public lecture in which he said:

"There has been some controversy in regard to priority of invention of first use of metal skeleton construction. It is generally agreed that it was first developed in Chicago in 1889 and recognized as a definite and new contribution to the science of construction in American architecture."

Professor Nolan said that the steel skeleton frame has been classified as the last of the four great developments of structural advances, which have given architecture really new resources, the first being the Roman vaults, the second the Gothic ribbed vault and flying arch and buttress and the third the metallic truss. Steel beams were first manufactured in 1895 by the Carnegie Steel Company at Pittsburgh, Pa.

Who invented the steel skeleton frame and made possible the modern skyscraper?

Prof. Nolan said:

"The inception and growth of the high building has been made possible by the introduction and rapid development of structural steel, light fireproof materials, passenger and freight elevators, and by great advances in the mechanical equipment, isolated foundation supports and wind bracing.

"Previous to 1885 'tall' buildings were not more than eight or ten stories high—this height was very nearly the practical limit—and their construction was then sometimes referred to as 'elevator architecture.' The next stage in the evolution of the tall building was the one in which the entire weight of the floors and roofs and the loads on them were carried by a system of metal columns, the exterior walls thus supporting no load but their own weight. Buildings were carried by this form of construction to the height of eighteen or nineteen stories.

"With the introduction of cheap structural steel the steel 'skeleton' or 'cage' construction came rapidly into use. Formerly the 'skeleton' type was carefully distinguished from the 'cage' type of tall building construction, the former term being applied to buildings which might have the outside walls self-supporting and which depended somewhat for stiffness upon walls, partitions, floor filling, etc.; and the term 'cage' being applied to buildings which consisted of a complete and well-connected framework of metal designed to carry not only the floors, but the walls, roof and all other parts of the structure, and furnished with wind-bracing members."

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—'Los Angeles Evening Herald.'

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Wagon Shop (remodeled for Dwelling), 459-61 North Third street. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Pennsylvania Wagon Co., 427 North Orianna street, Philadelphia. Brick, 2 stories, 32x45 feet, slag roof, cement and plank floors, electric lighting, 1 elevator. Plans completed. Architect and owners ready for bids.

Garage and Service Station, 2120-22 Fairmount avenue, Philadelphia. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Wm. Myers, Bell Telephone Co., Thirteenth and Arch streets. Brick, 1 story, 40x165 feet, slag roof, steam heating, electric lighting, cement floors, hollow metal skylights (gasoline storage system reserved). Architects taking bids, due August 16th at noon. Wills-Ludwick Co., 34 South Seventeenth street; Frederick G. Storck, 3519 North Thirteenth street; Warren E. Biscoe, 3954 Ludlow street; McCloskey & Bahls, 1620 Thompson street; D. Henwood, 1509 Wood street; Thos. C. Trafford, 1613 Sansom street; H. E. Grau Co., 1707 Sansom street, and Ketcham & McQuade, 1029 Brown street; Milton S. Gaul, 902 Bulletin Building, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Store (add.), 326 South street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, George Orlovitz, care of Louis Orlovitz, 326 South street. Brick and stone, 1 story, 20x57 feet, slag roof, electric lighting, hollow metal skylights and doors, metal lath, cabinet work, modern plumbing. Plans completed. Owner will be ready for bids in a few days.

Garage, 319 Kater street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, George Orlovitz, care of Louis Orlovitz, 326 South street. Brick, 1 story, 13x49 feet, slag roof, cement floors, steam heating, electric lighting, hollow metal skylights, fire doors, gasoline storage. Plans about completed. Owner will take bids in a few days.

Residences (9), E and Arthur streets, Philadelphia. Architect, private plans. Owner, W. E. Strock, 7353 Second Street Pike, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, hardwood floors, hot air heating, electric lighting. Owner sub-letting.

Residence (alt. and add.), 3113 Midvale avenue. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Philadelphia. Owner, Walter D. Kimball, Perry Building, Philadelphia. Brick, 2½ stories, porch additions, slag and tin roof, pine floors, electric lighting. Plans about completed. Architect ready for bids in a week.

Apartment House, Central Philadelphia. Architects, Bright & Myers, Otis Building, Philadelphia. Owner's name withheld. Reinforced concrete, brick and terra cotta. 13 stories, 50x125 feet, slag roof, steam heating, electric lighting, tile and marble work, fire doors and hollow metal doors, cement, pine and oak

floors, hollow tile, metal lath, elevators, waterproofing, ornamental iron work. Architects have received sub-bids.

Sewage Disposal Plant (add.), Byberry, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Health and Charities, Dr. Wilmer Krusen, Director, Room 584, City Hall, Philadelphia. Reinforced concrete and stone, Emscher & Dosing tanks, sludge beds and sprinkler filters, wire cloth. Owners taking bids, due August 24th at noon. F. W. Mark Const. Co., Finance Building, and W. W. Anstine Co., 1218 Filbert street, are figuring.

Power Plant, Thirty-fourth and Pine streets, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, Philadelphia General Hospital, care of Dr. Wm. Krusen, 584 City Hall. Brick and stone, 1 story, 158x53 feet, 50x52 feet and 88x80 feet, slag roof (steam heating, plumbing and electric work reserved), marble and terrazzo work, rolled steel sash and skylights, hollow metal sash, cement floors, metal lath, fire and kalamein doors, iron stairs, ornamental iron work, dampproofing. Owners taking bids, due September 12th. W. W. Anstine & Co., 1218 Filbert street; Mitchell Bros., 2125 Race street, and F. W. Mark Const. Co., Finance Building, Philadelphia, are figuring.

Garage (alt. and add.), 431-33 Lombard street. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, M. Levin, on premises. Brick and steel, 2 stories, 32x70 feet and 60x60 feet, slag roof, steam heating, electric lighting, cement and plank floors, 1 elevator (gasoline storage system reserved by owner). Owner taking bids, due in one week. Samuel Schultz, 3030 North Sixth street; Abraham Kirpichnikoff, 1110 North Forty-first street, and M. Miron, 560 North Sixth street, are figuring.

Colonade Hotel (int. alt.), southwest corner of Fifteenth and Chestnut streets. Architect, Stanley K. Neubauer, 1118 Chestnut st., Philadelphia. Owner, Bonwit, Teller & Co., southwest corner of Thirteenth and Chestnut streets. Brick and stone, alterations to first and second floors, oak and pine floors, tile and marble work, ornamental iron work. Architect taking bids, due August 15th. Frank G. Stewart, 1619 Sansom street; H. E. Baton, 1713 Sansom street, and Smith-Hardican Co., 1606 Cherry street, are figuring.

Apartments (alt.) and Store, Twenty-third and Tioga streets, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Harry Chervin, 2100 Hunting Park avenue, Philadelphia. Brick, 3 stories, 16x70 feet, and 1 story, 16x30 feet, slag roof, hot water heating, electric lighting, tile work, hardwood, cement and pine floors, metal lath, iron stairs. New plans in progress.

Office Building, Sixteenth and Arch streets, Philadelphia. Architect, Wm. Steele & Sons

Co., 34 South Fifteenth street, Philadelphia. Owners, Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia. Brick, 3 stories, 84x44 feet, slag roof (heating and lighting reserved), maple and parquet floors, tile, marble and terrazzo work, rolled steel sash, hollow metal skylights, fire doors, metal lath, roof ventilators, metal weatherstrips, metal ceilings, wire work. Owners taking sub-bids, due as soon as possible.

Factory, Greenwich Point, Philadelphia. Architect, private plans. Owners, the Brown Co., Inc., 2063 East Fifth street, Philadelphia. Reinforced concrete and brick, 3 stories, 120x61 feet, Barrett roof, concrete floors, rolled steel sash and skylights, fire escapes, ornamental iron work (heating, lighting and elevators reserved). Owners taking bids, due August 17th. Melody & Keating, 1322 Race street, are figuring.

Storage Building and alt. to Buildings (3), 114-120 North Front street. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owners, George D. Wetherill & Co., on premises. Brick, steel and concrete, 4 stories, 79x43 feet, slag roof, cement, maple and pine floors (steam heating, electric work, plumbing, elevator, sprinklers and mechanical plant reserved by owners), rolled steel sash, hollow metal sash and skylights, fire doors, metal lath, Belgian block paving, metal ceilings. Revised plans in progress. Architects will be ready for bids in one week.

Garage (add.), Mt. Airy and Germantown avenues, Philadelphia. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, E. P. Rotzell, 7200 Germantown avenue, Philadelphia. Brick, 1 story, 50x106 feet, slag roof, cement floors, hot water heating, electric lighting, hollow metal skylights. Plans in progress. Architects will be ready for sub-bids in one week.

Factory, Venango street and Pennsylvania Railroad, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, A. Schoenhut Co., Adams and Sepviva streets, Philadelphia. Reinforced concrete. Plans in progress. Too early for details.

Dispensary and Administration Buildings, Seventh street, between De Lancey and Cypress streets. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owners, Babies' Hospital of Philadelphia, care of Mr. Davidson, 1713 Walnut street, Philadelphia. Brick, stone and steel, 4 stories and 2 stories and basement. Plans in progress.

Garage (alt.), Wissahickon avenue and Cliveden street, Philadelphia. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Consulting decorator, Oscar E. Mertz, Commercial Trust Building. Owner, Adolph Loeb, on premises. Brick and hollow tile, 2 stories, 22x200 feet, slate roof, pine and concrete floors, steam heating. Mr. Mertz has received bids.

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Sales and Service Building (alt.), 1428 Vine street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Westinghouse Air Spring Co., on premises. Brick, 2 stories, consists of carpenter and mill work, painting, cabinet work, hardwood floors. Plans about completed.

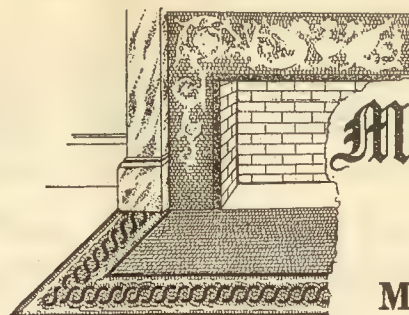
Warehouse, 117-19 North Tenth street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Snyder & Co., 134 North Tenth street, Philadelphia. Brick, steel and concrete, terra cotta and stone trim, 5 stories and basement, 104x31 feet, slag roof, pine and oak floors, electric lighting, tile work, hollow metal sash and skylights, fire doors, metal bulks, ornamental iron work (heating and elevator reserved). Architect taking bids, due August 20th. Lam Building Co., 1001 Wood street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Frank E. Wallace, 1220 Chancellor street; A. L. Fretz & Son, Heed Building; Barclay White & Co., 1713 Sansom street, are figuring.

Sales and Storage Building (alt. and add.), 1911 Chestnut street. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Joseph Habisreiter, 1604 Chestnut street, Philadelphia. Reinforced concrete and brick, 4 stories, rear addition. 24x30 feet, slag roof (plumbing, heating and electric work reserved), concrete and wood floors, dumb waiter, hollow metal sash and skylights, fire doors, waterproofing. Revised plans in progress. Architect ready for bids in a few days.

Store and Office Building (alt.), 1214 Walnut street, Philadelphia. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, Wm. L. Ludascher, Westmoreland street and Delaware avenue. Brick and stucco, 3½ stories, steam or hot water heating, electric lighting, tile and marble work, pine floors, metal lath, ornamental iron work. Owner is taking sub-bids on all lines at 1214 Walnut street.

Residence, Cliveden street, northeast of Wissahickon avenue, Germantown. Architect not announced. Owner, W. W. Riday, 1010 Race street, Philadelphia. Brick or stone, 2½ stories. Plans in progress.

Loft Building, Fifth and Locust streets,



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Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owner's name withheld. Brick (slow burning), 3 stor-

ies, 20x100 feet, slag roof, steam heating, electric lighting, pine floors, fire doors, 1 elevator. Architect will sub-let.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garbage Crematory, Navy Yard, Philadelphia, \$13,000. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, 2 stories, 17x40 feet, slag roof, plumbing, electric lighting, concrete floors, iron stairs, waterproofing. Contract awarded to Morse Boulger Destruct- or Co., 39 Courtland street, New York City.

Residence (alt.), Wissahickon avenue and Clivedon street, \$2,000. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Owner, Adolph Loeb, on premises. Consists of interior alterations, plastering, plumbing and heating, slag roof, waterproofing. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Church (add.), Sixty-first and Hazel avenue, Philadelphia, \$15,000. Architect, private plans. Owners, St. George's Episcopal Church, care of Rev. George LaPla Smith, Sixty-first and Cedar avenue, Philadelphia. Stone, 1 story and basement, 14x23 feet, 28x38 feet and 16x36 feet, slate roof, composition, cement and pine floors, plumbing, electric lighting, leaded glass. Contract awarded to Driscoll Co., Stock Exchange Building, Philadelphia.

Aviation Building, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief of Navy Department, Washington, D. C. Brick and steel, 1 story, 400x400 feet, Barrett roof, concrete and maple floors, steam heating, electric lighting, rolled steel sash, hollow metal skylights. Contract award-

ed to Austin Co., Bulletin Building, Philadelphia.

Hotel (int. alt.), southeast corner of Broad and Locust streets, \$10,000. Architect, Albert M. Gray, 1402 Broadway, New York City. Owners, Walton Hotel Co., Chas. B. Collins, president, 9 West Seventeenth street, New York City. Consists of tile and marble work, plastering, metal lath and painting. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Almshouse (alt. and add.), Pulaski avenue and Rittenhouse street, \$5,000. Architect, private plans. Owners, Germantown Almshouse, Pringle Borthwick, president Board of Managers, 8018 Germantown avenue, Philadelphia. Enclosed porches (2), brick and stone, slag roof, pine floors (elevator and iron work reserved). Contract awarded to Stokes Bros., 6723 Musgrave street, Germantown.

Engine Room, Second and Erie avenue, Philadelphia, \$5,000. Architect, private plans. Owners, Thomas Potter Sons Co., Inc., Second and Erie avenue. Brick and glazed tile, 1 story, 64x26 feet, slag roof, cement floors, rolled steel sash. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Tar Extractor House, Richmond and Tioga streets, Philadelphia, \$3,000. Architect, private plans. Owners, U. G. I. Co., Fred G. Thorn, Jr., Eng. of Const. Dept., Broad and Arch streets, Philadelphia. Brick, 1 story, 27x20 feet, slate roof, concrete floors. Con-

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tract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Office, Garage and Stable, Allegheny and Glenwood avenues, \$6,500. Architect, Frederick T. Euzzell, 147 North Third street, Philadelphia. Owners, F. J. Wittmaier & Son, 917 Tioga street, Philadelphia. Brick, 2 stories, 18x26 feet; 1 story, 18x20 feet, and 2 stories, 18x80 feet, slag roof, steam or hot water heating, electric lighting, cement floors, tile work, concrete work, gasoline storage system. Contract awarded to Henry P. Schneider, 3713 Old York Road, Philadelphia.

PENNSYLVANIA Construction News

Chapel, Edgeboro, Bethlehem, Pa., \$10,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian Congregation, Emil Bishop, Edgeboro, chairman of committee. Brick, 1 story, 30x45 feet, slate roof, hot water heating, electric lighting, wood floors. Architect taking approximate bids. F. F. Speck and Speck Bros., both of Bethlehem, Pa., and Butz & Clader, of Allentown, Pa., are figuring.

Hotel, Northampton Heights, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, James F. Miller, South Bethlehem, Pa. Brick, 3 stories and basement, 43x85 feet, slag and Spanish tile roof, steam or hot water heating, electric lighting, tile and marble work, yellow pine floors, fire escapes. Architect has received bids.

Home, Allentown, Pa., Fourth and Hamilton streets. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owners, Rescue Mission, Allentown, Pa. Brick, 3 stories and basement, 40x100 feet, composition roof, pine and composition floors (vapor heating and electric work reserved), combination lighting, hollow tile, dumb waiter, iron stairs. Architect has received bids.

Residence (add.), Palmerton, Pa. Architect, L. M. Jacoby, Commonwealth Building, Allentown, Pa. Owner, A. F. Ritter, Palmerton, Pa. General interior alterations. Owner ready for bids.

Residence, Allentown, Pa., \$6,000. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner's name withheld. Hollow tile and stucco, 2 stories and basement, 30x30 feet, slate roof, vapor vacuum heating, electric lighting, pine floors. Plans completed. Architect ready for bids in one week.

Residences, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Albert Jacobs, 232 North Third street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, hot air heating, electric lighting, pine floors. Plans in progress.

School, Ashland Heights, Montgomery County, Pa., \$70,000. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, Superintendent of Schools, Ardmore, Pa. Stone, hollow tile and stucco or brick veneer, 1 story and basement, 158x172 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, metal lath, roof ventilators, metal weatherstrips, waterproofing, dampproofing, wire work, ornamental iron work (plumbing, heating, ventilating and electric work reserved). Architect has received revised bids.

Store and Apartments (alt.), corner of Peach and Adams avenue, Scranton, Pa. Architect, E. H. Davis, Union National Bank, Scranton, Pa. Owner's name withheld. Frame, 3 stories (plumbing, steam heating and elec-

Bridge (alt.), Delaware River, east of Frankford Junction, Philadelphia. Architect, private plans. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. New wood piles and timber construction. Contract awarded to Brann & Stuart, Commercial Trust Building, Philadelphia.

Factory (fire repairs), Third and Cumberland streets, Philadelphia, \$4,500. Architect, private plans. Owner, Wm. M. Murphy, on premises. Millwork, painting, slag roof, pine floors. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

tric work reserved), plastering, mill work. Architect has received bids.

Foundry (add.), Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, McClave Brooks & Co., Scranton, Pa. Brick, 1 story, 175x30 feet, slag roof, wood block floors, electric lighting, rolled steel sash, fire doors, sprinklers. Plans in progress.

School (add.), Archbald, Pa., \$10,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board of Archbald, Archbald, Pa. Frame, 2 stories and basement, 40x55 feet, shingle roof (indirect heating, plumbing and electric work reserved), pine floors. Revised plans in progress. Owners will take bids in a few days.

Residence (alt.), Scranton, Pa., \$4,000. Architects, Hancock & Koch, Mears Building, Scranton, Pa. Owner's name withheld. Frame, 2 stories, general interior alterations, hardwood floors, tile work. Plans in progress.

Residence (alt.), Scranton, Pa., \$4,000. Architects, Hancock & Koch, Mears Building, Scranton, Pa. Owner's name withheld. Brick, 3 stories, steam heating, electric lighting. Plans in progress.

School, Miners Mills, Pa., \$100,000. Architect, A. L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Miners Mills, Peter Mayoek, secretary, Miners Mills, Pa. Brick veneer, 2 stories, 118x76 feet, slag roof, pine floors (steam heating, electric work, plumbing reserved). Plans in progress.

Garage and Hardware Store, Shickshinny, Pa. Architects, Thomas Pedmore, Bennett Building, Wilkes-Barre, Pa. Owners, J. B. Woodworth's Sons, Shickshinny, Pa. Concrete blocks, 2 stories and basement, 70x135 feet, slag roof, steam heating, electric lighting, pine floors, hollow tile, 2 elevators. Plans completed. Owners will build.

Church (alt. and add.), Wilkes-Barre, Pa. Architect, Owne McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, St. Stanislaus' Polish Catholic Church, Wilkes-Barre, Pa. Frame, 1 story, 40x40 feet, shingle roof, steam heating, electric lighting, pine floors. Architect has received bids.

Apartment House, South Bethlehem, Pa. Architect, E. H. Bitting, South Bethlehem, Pa. Owner, Albert Jacobs, 232 North Third street, Philadelphia. Brick, 3 stories, 18x60 feet, slag roof, hot air heating, electric lighting, pine floors. Plans in progress.

Family Bungalows (2), Rittersville, Pa. Architect, J. R. Wilt, 104 Fourth avenue, Bethlehem, Pa. Owner, James Christ, Bethlehem, Pa. Brick and shingle, deck type, 36x50 feet, composition roof, pine floors, hot water heating, electric lighting. Plans completed. Owner taking sub-bids.

Hostler's Quarters, West Chester, Pa. Architects, Maintenance of Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad

Street Station, Philadelphia. Frame, concrete foundations, 1 story, 12x18 feet, slate strip shingle roof, pine floors. Plans completed. Owners, care of A. J. Whitney, superintendent Maryland Division, Wilmington, Del., will take bids.

School, Foster Township, Pa. Architect, Owne McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Foster Township School Board, Foster Township, Pa. Brick or frame, 1 story, 4 rooms, slate roof, steam heating, pine floors. Plans completed. Owners ready for bids.

Store Front, Wilkes-Barre, Pa., \$7,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Dry Goods Co., Wilkes-Barre, Pa. Metal bulks, 1 story, 24x30 feet, oak floors, electric lighting, tile and marble work. Plans completed. Architect has received bids.

Office Building, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maecar Truck Co., Scranton, Pa. Brick and concrete, 1 story, 40x65 feet, slag roof, pine floors (steam heating, electric lighting and plumbing reserved), hollow tile, metal lath, rolled steel sash, metal ceilings. Architect taking bids. Washburn & Williams, Ludwig Stipp, Hoyer & Stender, and E. A. Fuller, all of Scranton, Pa., are figuring.

Silk Mill (add.), Scranton, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owners, Black Diamond Silk Mill Co., Scranton, Pa. Brick, 3 stories, 20x36 feet, slag roof, maple floors (plumbing reserved). Owners taking bids, due August 15th. Peck Lumber Co., Hoyer & Stender, S. Sykes & Sons, Herbert L. Williams, Parsons Const. Co., and Wm. Perry, all of Scranton, Pa., are figuring.

Y. M. C. A., Seventh and Edgemont avenue, Chester, Pa. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owners, Y. M. C. A., Joseph K. McLean, chairman of Building Committee, Chester, Pa. Brick and steel, new window and stage, composition and pine floors, marble work, metal lath, fire escape addition, ornamental iron work (lighting and heating reserved). Owners taking bids, due August 21st. Wark-Yardley Co., 1737 Filbert street, are figuring.

Post Office and Court House (add.), Harrisburg, Pa. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Granite, 3 stories. Owners ready for bids, due August 28th.

Chief Gunners' Quarters, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief of Navy Department, Washington, D. C. Hollow tile, concrete footings, 2 stories, asbestos shingle roof, steam heating, electric lighting, wood floors. Owners have received bids.

Bungalow, Eagle Road, near West Chester Pike, Drexel Hill, \$12,000. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, Wm. Leedom, 917 Locust street, Philadelphia. Stone, 1½ stories, 38x62 feet, slate roof, hot water heating, electric lighting, tile and marble work, modern plumbing, hardwood floors. Plans in progress. Architect will be ready for bids in three weeks.

Boiler House, Calender Room and Mill, Cheltenham, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owners, Hoffman, De Witt & McDonough Co., Inc., Cheltenham, Pa. Brick, concrete (slow burning), 1 story, 52x65 feet, slag roof, electric lighting (steam heating extension), fire doors, hollow metal skylights, steel stack, cement floors. Plans about completed. Architect will be ready for bids in a week.

Dispensary (alts. to Stores), Edgemont, between Third and Fourth streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut

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507-8 Colonial Trust Building, Philadelphia

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street, Philadelphia. Owners, Penn Realty Corporation, Third and Edgemont streets, Chester. Consists of metal bulks, tile and marble work, combination lighting, hot water heating, slag roof, painting. Plans about completed. Owner will take sub-bids in one week.

Stores (4) (alt. and add.), Third street, below Edgemont avenue, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John C. Hinkson, Chester, Pa. Consists of general alterations, metal bulks, tile and marble work, electric lighting, hot water heating. Owner will be ready for sub-bids in two weeks.

Residence, Chester, Pa. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owner, H. J. Klaer, care of architect. Stone, 2½ stories, 54x69 feet, slate and tin roof, pine and cement floors, hot water heating, electric lighting, tile and marble work, metal lath, dampproofing. Architects have received bids.

Stable, Garage and Boiler Room, Glenolden, Delaware County, Pa. Architect, private plans. Owners, H. K. Mulford Co., 428 South Thirteenth street, Philadelphia. Frame and hollow tile, 1 story, 132x62 feet, and 1 story, 45x25 feet and 11x22 feet, asphalt shingle and felt roof, cement floors, hollow metal sash (lighting, plumbing, heating, painting and machinery reserved). Owners taking bids, due August 15th. Graham-Campion Co., Otis Building; Royhouse-Arey Co., 112 North Broad street; Thomas M. Seeds, Jr., 1207 Race street; Standard Const. Co., 1713 Sansom street; A. L. Carhart, Hale Building, and Wark-Yardley Co., 1737 Filbert street, are figuring.

Schools (2), Old Forge, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, School Board of Old Forge, care of John Cook, secretary, Old Forge, Pa. Brick and frame, 1 story (4 rooms each) (plumbing, heating and electric work reserved), slag roof, slate roofs. Owners will take revised bids.

Residence, Reading, Pa. Architect, James H. Schank and P. F. McAllister, associated, 26 Lippy Building, Seattle, Washington. Owner, Miss Grace Rick, 618 Washington street, Reading, Pa. Brick, 2 stories, 28x30 feet, shingle roof, yellow pine floors, hot water heating, electric lighting, tile work. Owners taking bids, due as soon as possible. Beard Const. Co., Reading, Pa., is figuring.

School, Boyertown, Pa. Architect, Edw. Z. Schell, 31 North Sixth street, Reading, Pa. Owners, School Board of Boyertown, Boyertown, Pa. Brick and stone, 2 stories and basement, 140x71 feet, steam or hot air heating, electric lighting, slag roof, maple floors, hollow metal skylights, kalamein doors, roof ventilators, waterproofing (heating, plumbing and electric work reserved). Owners have received bids.

Residence (alt. and add.), Clay avenue, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Own-

er, A. B. Warman, Clay avenue, Scranton, Pa. Brick, 3 stories, 34x35 feet, slate roof, steam heating, electric lighting, tile and marble work, hardwood floors, metal lath. Plans completed. Architects will take bids next week.

Residence, Observatory Hill, Darby, Pa. Architects, Louis Magaziner & Victor Eberhard, 603 Chestnut street. Owner, G. Washington Cole, Cluett Peabody & Co., 1211 Arch street. Stone and frame, 2½ stories, 30x30 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Residence, Melrose Park, Pa. Architect not selected. Owner, Frederick Jasperson, 4927 North Thirteenth street, Philadelphia. Details not decided, 2½ stories. Work contemplated for spring of 1918.

School (add.), Sharon Hill, Delaware County, Pa. Architect, Wm. G. Douglass, Jr., 521 Ludlow street, Philadelphia. Owners, Board of Education, Wm. McNair, secretary, Sharon Hill, Pa. Stone and brick, 2 stories, 27x78 feet (heating, plumbing, lighting and ventilating separate bids), slate roof, concrete and maple floors, wire work, metal lath, safety treads, roof ventilators, metal window guards. Owners taking revised bids, due August 16th at 3 P. M. The following are figuring: Standard Const. Co., 1713 Sansom street; Evans Const. Co., 9 South Eighteenth street; F. B. Davis, 240 North Sixteenth street, Mitchell Bros., 2125 Race street, all of Philadelphia.

Club House, Edge Hill, Montgomery County, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, La Lu Temple Country Club, Fitzwatertown, Montgomery County, Pa. Stone, 2 stories and basement, 152x35 feet, shingle roof, maple and pine and composition floors (lighting, heating and plumbing reserved), tile work, metal lath, metal weatherstrips, waterproofing. Architect taking bids, due August 20th. Graham-Campion Co., Otis Building; H. E. Baton, 1713 Sansom street; F. A. Havens Co., 845 North Nineteenth street; F. E. Wallace, 1220 Chancellor street; A. R. Raff Const. Co., 1635 Thompson street, and H. H. Wehmeyer, 1004 West Lehigh avenue, are figuring.

Pennsylvania Contracts Awarded

Mill (add.), Honesdale, Wayne County, Pa. Architects, Hancock & Koch, Mears Building, Scranton, Pa. Owners, Wayne Milling Co., Honesdale, Pa. Brick and concrete, 2 stories, 36x30 feet, slag roof, pine floors, electric lighting, rolled steel sash, waterproofing. Contract awarded to Kreidler Bros., Honesdale, Pa.

Convent (alt.), Honesdale, Wayne County, Pa. Architects, Hancock & Koch, Mears Building, Scranton, Pa. Owners, St. Magdalene Congregation, Honesdale, Pa. Brick veneer, 2½ stories, slate roof, electric lighting,

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10,000 ft. clear, soft, yellow poplar, cut in boards 1 inch thick, 12 inches wide, and 3 lengths, 14, 16 and 18 feet. Further particulars can be had upon application to S. E. BOYD, GLEN MILLS, PENNA.

pine floors. Contract awarded to Krestler Bros., Honesdale, Pa.

Office Building, White Haven, Pa., \$18,000. Architect, George F. Schoeder, Weitzenkorn Building, Wilkes-Barre, PaP. Owners, Wilmot Eng. Co., White Haven, Pa. Brick, 2 stories, 34x82 feet, slag roof (steam heating reserved), electric lighting, tile and marble work, yellow pine, concrete and hardwood floors, metal lath, waterproofing. Contract awarded to Mr. Griffen, Hazleton, Pa.

Airplane Plant, Middletown, Dauphin County, Pa., \$500,000. Architect, private plans. Owners, U. S. Government, Council of National Defense, Washington, D. C. Brick, steel and frame, 1 story, 300x843 feet, prepared roof, concrete and pine floors. Contract awarded to James L. Stuart, Oliver Building, Pittsburgh, Pa.

Garage, Mill Creek Road, Ardmore, Pa., \$5,700. Architect, Wm. Woodburn Potter, Real Estate Trust Building. Owner, J. Howard Pew, Finance Building, Philadelphia. Frame and brick, 1½ stories, 32x23 feet, shingle roof, cement and pine floors (plumbing, heating, electric work and gasoline storage system reserved). Contract awarded to Chas. C. Pace, Merion, Pa.

Bridge No. 29, Emaus, near Allentown, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Twelfth and Market streets, Philadelphia. Concrete, steel, stone and timber, 100 feet long, waterproofing. Contract awarded to George H. Hardner, Allentown, Pa. Contract for waterproofing awarded to Benj. Foster Co., Twentieth and Venango streets, Philadelphia.

School Building, Dorranceton, Pa. Architects, Pettibone & Lewis, Second National Bank, Wilkes-Barre, Pa. Owners, School Board of Dorranceton, Dorranceton, Pa. Brick, 2 stories (8 rooms), composition roof, pine floors, electric lighting. Contract awarded to J. G. Schuler, Wilkes-Barre, Pa.

Machine Shop, South Wilkes-Barre, Pa. Architects, McCormick & French, Wilkes-Barre, Pa. Owners, Nicholson Machine Co., South Wilkes-Barre, Pa. Brick, 1 story, 53x76 feet, slag roof, plank floors, galvanized iron skylights. Contract awarded to Shepherd Const. Co., Second National Bank Building, Wilkes-Barre, Pa.

Office Building, Conshohocken, Pa., \$15,000. Architect, John C. Norton, Ardmore, Pa. Owner, A. Talone, Conshohocken, Pa. Brick, marble trim, 2 stories, 30x70 feet, slag roof, terrazzo and pine floors, hot water heating, electric lighting, metal ceilings. Contract awarded to Milton S. Grawl, Bulletin Building, Philadelphia.

Even the best piece of machinery gets a hot bearing once in a while.—Ex.

An advertisement should stick out like a sore thumb without being so sensitive.—“Novelty News.”

After thirty-nine years in the old stove district of North Second Street,

BORDEN STOVE CO.

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A variety of nearly two hundred Cooking and Heating Appliances as well as refrigerators on permanent display.

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“MERCHANDISE that makes friends, SERVICE that keeps them”

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We design and install systems for water supply, sewage disposal, lighting, refrigeration, irrigation—every type of private utilities

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725-26 Commercial Trust Building, Philadelphia

NEW JERSEY**Construction News**

Bungalow (alt. and add.), Bells Lake, N. J. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Philadelphia. Owner, Samuel Bell, Jr., 1314 Locust street, Philadelphia. Frame, 2 story rear addition, hot air heating, electric lighting, shingle roof, pine floors. Plans in progress.

Home (add.), Haddonfield, N. J. Architect, Frank V. Nickels, Real Estate Trust Building, Philadelphia. Owners, Sheppard's Home, Haddonfield, N. J. Cement blocks, 2 story addition, 38x45 feet, pine floors. Plans about completed. Architect ready for bids in a few days.

Factory, First and Passaic streets, Passaic, N. J. Architects, Lockwood, Greene & Co., 101 Park avenue, New York City. Owners, the New York Belting and Packing Co., 91 Chambers street, New York City. Reinforced concrete and brick, 5 stories and basement, 87x250 feet, Barrett roof, cement and maple floors, rolled steel sash, hollow metal sash and skylights, fire doors, hollow tile, metal lath, safety treads, waterproofing, wire work, ornamental iron work. Architects taking bids, due August 20th. F. W. Mark Const. Co., Finance Building, Philadelphia, is figuring.

Warehouse and Blowhouse, Camden, N. J. Architect, Frank Sutton, 80 Broadway, New York City. Owner, Wilkes Martin Wilkes, 135 William street, New York City. Brick and steel, 1 story, 91x77 feet, and 1 story, 31x100 feet, maple floors, rolled steel sash and skylights, ornamental iron work. Architect taking bids, due August 17th. John R. Wiggins & Co., Inc., Otis Building, Philadelphia, are figuring.

Garage, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N.

J. Owner, Edw. Fisher, Washington Crossing, Trenton, N. J. Frame, 2 stories, 28x32 feet, slate roof, cement floors, electric lighting, gasoline storage system. Plans in progress.

School, Hamilton Township, Mercer County, N. J., \$40,000. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board of Hamilton Township, Mercer County, N. J. Brick, 2 stories (8 rooms) (heating, plumbing and electric work reserved), slag roof, maple floors, tile work, rolled steel sash, iron stairs, metal stairs. Owners will re-advertise for bids this week.

School, Titusville, Mercer County, N. J., \$20,000. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Hopewell Township, Titusville, N. J. Brick, 2 stories, 51x66 feet, slate roof, pine floors (steam heating, electric lighting and plumbing reserved). Plans completed. Owners ready for bids.

Carpenter and Pattern Shop, New York avenue, Trenton, N. J. Architect, R. A. Schumann, 932 Lambertson street, Trenton, N. J. Owners, Trenton Malleable Iron Co., New York avenue, Trenton, N. J. Brick, 2 stories, 28x128 feet, slag roof, yellow pine floors (heating and electric lighting and elevators reserved). Architect taking bids, due August 16th. Burton & Burton, I. Harper Clayton, and S. W. Mather & Son, all of Trenton, N. J., are figuring.

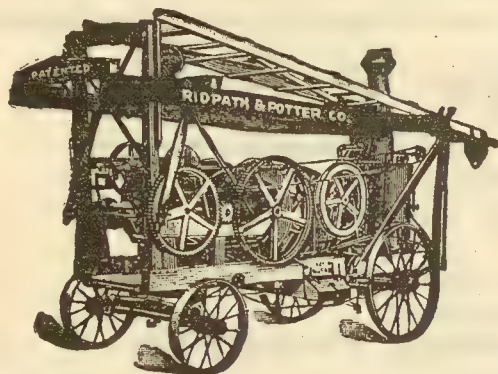
Store (alt. and add.), South Broad street, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Philadelphia Bargain Store, Henry Wirschafter, on premises. Brick, 3 stories, 35x70 feet, tin roof, steam heating, electric lighting, pine floors. Architects taking bids, due August 15th. Burton & Burton,

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

W. J. BAKER CO.'S *All Metal Frame Screens and Wood Frame Screens*

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We Drill Wells and Get Water Test Borings and Soundings

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Philadelphia, Penna.

I Harper Clayton, Mr. Scott, S. W. Mather & Son, and James H. Morris, all of Trenton, N. J., are figuring.

Bank Building, corner of Broadway and Carman street, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Merchants Trust Co., on premises. Marble (fireproof), 1 story and basement and mezzanine, 40x90 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, marble and cement floors, metal lath, roof ventilators,

metal window guards, waterproofing, ornamental iron work. Plans about completed. Architect ready for bids in ten days.

Bungalow, Browns Mills in the Pines, N. J. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owners, Rhodenberg Co., Inc., 110 West Fortieth street, New York City. Frame, 1½ stories, 24x30 feet, shingle roof, electric lighting, plumbing, tile work, yellow pine floors. Plans about completed. Owners will be ready for sub-bids in one week.

NEW JERSEY Contracts Awarded

Farmer's House (alt.) and Barn, Princeton, N. J., \$38,000. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Donald G. Herring, 33 Cleveland street, Trenton, N. J. Stone, 2½ and 1 stories, shingle roof, cement and wood floors, electric lighting. Contract awarded to R. C. Balinger & Co., 218 North Thirteenth street, Philadelphia.

Factory and Office Building, Hamilton Township, Trenton, N. J., \$95,000. Architect, J. Osborne Hunt, 114 North Montgomery st., Trenton, N. J. Owners, De Lion Tire and Rubber Co., East State street, Trenton, N. J. Brick, concrete and steel, 2 stories, 65x250 feet and 50x70 feet, slag roof (steam heating, plumbing, electric wiring, steel sash awarded), fire doors, fire escapes, iron stairs, ornamental iron work, concrete floors, hollow tile, metal lath, elevators, safety treads, roof ventilators. Contract awarded to James H. Morris, Broad Street Bank Building, Trenton, N. J.

Residence (alt. and add.), Greenwood avenue, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, General E. C. Murray, Greenwood avenue, Trenton, N. J. Brick and stucco, 2½

stories, 33x44 feet, slate roof, hardwood floors, tile work. Contract for mason work awarded to Chas. J. Smith, 63 Maple avenue, and carpenter work to Fred Parker, 327 Calhoun st., both of Trenton, N. J.

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You may have noticed, advertise!

Buy pure lime, 99% pure, no core, no grit. **DAVID FRANCE CO.**,
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Dome
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If you build fire places or sell fire place dampers, ash traps, andirons, fire baskets, fire sets, etc., you should have our No. 1590-X Catalog.

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DO IT NOW.

All we have is just this minute

Do It Now.

Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

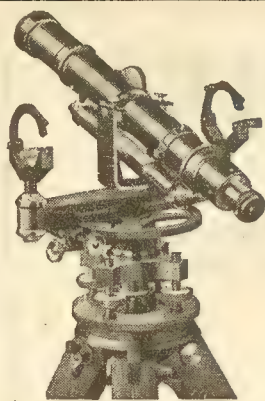
You must sometime make a showing.

Do It Now.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

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You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.



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WITHEROW STEEL CO.

General Offices and Rolling Mills, Pittsburgh

Philadelphia Office, 1435 Commercial Trust Building

Miscellaneous Construction News

Apartment House, 1304-06 Front street, Wilmington, Del. Architect, John E. Canning, 11 East Thirteenth street, Wilmington, Del. Owner, Joseph Mauro, on premises. Brick, 3 stories, 40x60 feet, slag roof, pine floors, hot water heating, electric lighting. Plans completed. Architect taking bids. Charles Anderson, Ernesto Diasibatino, 501 North Lincoln street, and John E. Healey & Son, all of Wilmington, Del, are figuring.

Store (alt. and add.), 331 East Fourth street, Wilmington, Del., \$5,000. Architect, John E. Canning, 11 East Thirteenth street, Wilmington, Del. Owner, Max Keil, 300 E. Fourth street, Wilmington, Del. Brick, 3 stories, slag roof, electric lighting, North Carolina pine floors. Architect taking bids. Chas. Anderson, Chas. Dougherty and Geo. Charles, all of Wilmington, Del., are figuring.

Coal Pocket, Wilmington, Del. Architects, Dougherty & Thompson, Ford Building, Wilmington, Del. Owner, J. E. Perry, Wilmington, Del. Concrete. Architects taking bids, due as soon as possible. W. D. Haddock & Co., A. S. Reed & Bro., and J. L. Bader, all of Wilmington, Del., are figuring.

Church, Franklin and Elm streets, Wilmington, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owners, Baptist City Mission Society, Thomas Taylor, chairman of committee, Wilmington, Del. Stucco, 1 story and basement, 52x36 feet, slate roof, pine floors, hot air heating, electric lighting, waterproofing. Plans completed. Architect ready for bids.

Office Building (alt.), Fourth and French streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, W. C. Phillips, Fourth and French streets, Wilmington, Del. Consists of general interior alterations. Architect taking bids, due as soon as possible. J. I. Disharoon, Lan-

caster, Pa.; Charles J. Dougherty, Charles Bryce, Charles H. Tindall & Son, and Harry Lynch, all of Wilmington, Del., are figuring.

Residence and Garage, Tenth and Central avenue, Ponca City, Okla., \$12,000. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Samuel Collins, Ponca City, Okla. Frame and stucco, 2½ and 1 stories, 64x64 feet, shingle roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Revised plans about completed. Owner will take bids.

Court House (alt. and add.), Dover, Del. Architects, Wilson, Ehre & McIlvanine, 1003 Spruce street, Philadelphia. Owners, City of Dover, Del. Brick, 1 and 2 stories, additions and general additions. Plans in progress. Ready for bids in a month.

Factory Building (alt. and add.), Second between Orange and Tatnall streets, Wilmington, Del. Architect, C. L. Rice, Jr., 815 Market street, Wilmington, Del. Owners, P. Lorillard Co., on premises. Brick, 3 stories and basement, 73x94 feet (steam heat and electric lighting reserved), rolled steel sash, fire doors and escapes, metal lath, elevators, slate roof. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Club House, New York avenue and H st., Washington, D. C., \$650,000. Architects, Milburn, Heister & Co., 710 Fourteenth street, Washington, D. C. Owners, Washington Athletic Club, Percy Foster, president, 1330 G street, Washington, D. C. Brick, stone, terra cotta and concrete, 13 stories, 152x138 feet, steam heating, electric lighting, skylights, ventilators, vault lights, reinforced concrete, fireproofing, dampproofing, plastering, painting, plumbing, steel and iron work, tile and marble work. Plans in progress. Architects will be ready for bids in about three weeks.

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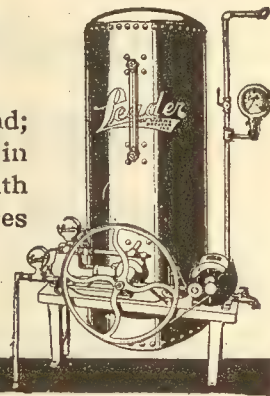
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MARYLAND

Construction News

Schools (2), Riverdals and Mullikin, Md., \$30,000. Architect, Bart Tourison, Land Title Building, Philadelphia. Owners, School Board of Upper Marlboro Township, E. S. Burroughs, president, Court House, Upper Marlboro, Md. Brick, 2 stories, 6 rooms, slag or asphalt shingle roof, steam heating, electric lighting, pine floors. Plans completed. Owners will advertise for bids.

Factory Building, Dorsey, Howard County, Md. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owners, Howard Refractories Co., Dorsey, Md. Concrete foundations, frame. Stock shed, 36x200 feet; machine building, 81x95 feet; composition roofs. Architects taking bids. Daniel Harding, Dorsey, Md., and McIver Const. Co., Law Building, Baltimore, Md., are figuring.

Library, South Ann street, Branch No. 19, Baltimore, Md. Architects, Ellicott & Emmart, 1101 Union Trust Building, Baltimore. Consulting Engineer, C. L. Reeder, Saratoga st. and Park avenue, Baltimore, Md. Owners, Enoch Pratt Library Trustees, Baltimore, Md. Too early for details. Plans in progress.

Theatre (alt. and add.), Gay and Hoffman streets, Baltimore. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owners, Northeastern Amusement Co., on premises. Consulting engineer, Henry Massart, 328 N. Charles street, Baltimore. Brick, concrete work, ornamental iron work, terra cotta, plastering, tile and marble work, metal lath, plumbing, hardware (heating, wiring and lighting fixtures reserved), reinforcing steel, painting. Architect taking bids, due August

15th. Morrow Bros., Fidelity Building; Consolidated Eng. Co., Calvert Building; Cowan Building Co., 106 West Madison street; Herbert & Prodoehl, Munsey Building, and Gladfelter & Chambers, Thirty-sixth and Roland avenue, all of Baltimore, Md., are figuring.

Bennett Hall (add.), Goucher College, Baltimore, Md. Architects, Ellicott & Emmart, Union Trust Building, Baltimore, Md. Owner, Goucher College, Baltimore, Md. Concrete, brick and stone work, millwork, sheet metal, plastering, painting and plumbing (wiring and heating reserved). Architects taking bids. B. F. Bennett Building Co., 123 South Howard street, Baltimore, Md., is figuring.

Boarding Houses (5), Sparrows Point, Md. Architect, E. L. Palmer, Jr., 513 North Charles street, Baltimore, Md. Owners, Bethlehem Steel Co., care of T. W. Stingley, Sparrows Point, Md. Hollow tile and stucco, 3 stories, 26x65 feet, slate roof, electric lighting, tile and terrazzo work, sheet metal, waterproofing, millwork. Architect taking bids, due in about ten days.

Bulkhead, Baltimore, Md. Acting harbor engineer, S. R. Alexander, Baltimore, Md. Owners, City of Baltimore, City Hall, Baltimore, Md. Timber and concrete bulkhead, timber piling, 2,791 feet long. Owners taking bids, due August 15th.

The darkest hour in any man's life is when he sits down to plan how to get money without earning it.—Horace Greely.

Maryland

Contracts Awarded

Theatre (alts.), North avenue and Charles street, Baltimore, Md. Architect, private plans. Owners, Parkway Theatre, on premises. General interior alterations, consisting of changing lobby and stairway. Contract awarded to Cogswell-Koether Co., 406 Park avenue, Baltimore, Md.

Church (alts. and add.), Cokesbury street and Montebello Place, Baltimore, Md. Architect, M. MacCallum, Albion avenue, near Hermosa avenue, Baltimore, Md. Owners, Oxford M. E. Church, on premises, care of George A. Rossing, 317 Title Building, Baltimore, chairman of Building Committee. Consists of general alterations and addition. Contract awarded to John Waters Building Co., 23 East Center street, Baltimore, Md.

Residence (add.), 2833 St. Paul street, Baltimore, Md. Architect, private plans. Owner, Annie B. Connolly, on premises. Brick, 3 stories, tin or slag roof. Contract awarded to John C. Mach, 716 North Wolfe street, Baltimore, Md.

Bank (alt.), Prince Frederick, Calvert County, Md., \$3,500. Architect, private plans. Owners, Prince Frederick Bank, J. B. Gray, president, Prince Frederick, Md. Consists of general interior alterations. Contract awarded to J. L. Robinson Const. Co., 218 East Lexington street, Baltimore, Md.

THE WAR DEPARTMENT'S CANTONMENT PLANS.

There will be sixteen cantonments constructed in various parts of the country.

These camps will each consist of one division, plus certain additional units, and will aggregate from 35,000 to 45,000 men in each case. A division consists of nine infantry regiments, divided into three brigades, one brigade of light artillery, consisting of three regiments, one regiment of cavalry which will be organized like an infantry regiment, one regiment of engineers, one aero squadron and one field signal battalion. The additional units will vary at the different camps and will consist of heavy artillery regiments, additional infantry regiments, balloon companies and field telegraph battalions. Infantry regiments are composed of 12 companies at 200 men each, one machine gun company of 200 men, and smaller organizations, known as headquarters and supply companies and medical detachments, attached to the regiments. Artillery regiments are made up of six batteries, each with headquarters and supply companies, and engineer regiments are made of six companies with headquarters and supply companies. The battery consists of 190 men. The engineer company consists of 164 men.

The barracks for companies and batteries will be two stories in height, with the mess hall and kitchen located on the first floor, and with dormitories on the balance of the first floor and the second floor. Small detachments will be housed in one-story barracks, as will the officers. The officers for a regi-

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ment are housed in groups, depending on the size of the organization, which means that from 8 to 15 officers will be in each building.

It is the intention of the Government to erect, as soon as funds become available, a post exchange building for the use of each regiment, which will contain a small restaurant and a small store for the sale of small wares, soda water, ice cream, etc.

The Y. M. C. A. is providing for the use of each regiment an assembly building, where men will be provided with writing materials, magazines and books, and where religious meetings, entertainments, and lectures will be given. The Y. M. C. A. is also planning to provide in connection with each division cantonment a large auditorium or assembly hall where more extensive entertainments, religious services, etc., can be held.

The construction of stables for the requisite horses and mules will be started as soon as the construction of the necessary buildings for housing the men have been completed. Stables are, in general, placed in the rear of the living quarters, and, so far as possible, in the direction away from the prevailing summer winds, so that such flies as may develop will be blown away from and not into the quarters of the men.

The Quartermaster's Department in providing quarters for troops on the Mexican border had worked up a system of houses consisting entirely of one-story buildings. In completing plans for the present cantonments the fact developed that this arrangement would require too much ground space, and, coupled with the fact that the various units had been largely increased in size, made it necessary to adopt the two-story barracks in the interest of economy.

Lavatories will be provided for each organization, fitted with shower baths and other necessary fixtures. The shower baths will be provided with hot and cold water, and, in general, the toilet facilities will be practically as good as would be provided in connection with permanent barracks at army posts.

The hospital plant in each case will be placed to the best advantage under the conditions of each group, and the location is not determined by the typical layouts.

The buildings are all constructed substantially with frames of wooden studding and covered with boards. The windows are of good size and ample in number.

It is difficult to grasp the great scale of these cantonments. They will occupy from 900 to 1,200 acres each, and when the units are arranged in one straight line, as they will be in some localities, they occupy a strip of ground about one-third of a mile wide and nearly 2½ miles long! Owing to the different topography of the various sites, the units will be arranged in different ways, varying from the straight-line plan and the U-shaped plan to the S-shaped and figure 8-shaped plans, it being essential that the principal street and

parallel service street, on both of which the units are "threaded," have as easy a grade as possible. The sites for all have now been made public.

Messrs. George B. Ford, Charles Butler, J. Otis Post, Woodruff Leeming and other members of the American Institute of Architects acted as advisors in the planning of the cantonments and the individual buildings of which they are composed.—"Journal of A. T. of A."

GETTING A SITE TOGETHER.

The erection of the new Astor Building on the site of the former Astor House calls to mind the old stories about the troubles John Jacob Astor, the first, had in assembling this plot, says the "Wood-Harmon Magazine." Mr. Astor lived at 8 Vesey street when he conceived the idea of building a fine hotel on Broadway, opposite the Common (now City Hall Park) and the junction of the Boston Road (now Park Row). He first secured the house of Rufus King at the corner of Vesey street and Broadway, which had large gardens attached. Mr. King was at that time Minister to England, and his granddaughter, Madam Mary King Waddington, the wife of a prominent French statesman, had distinguished herself for her literary abilities.

Gradually Mr. Astor acquired every house along Broadway until finally he had all but the Barclay street corner. This belonged to John G. Coster, an old friend of Mr. Astor's, who frankly but firmly refused to sell. Finally, Mr. Astor went to him and said: "Mr. Coster, I have here two appraisals of your house by two of the best real estate men in the city. I need your house for the site for my hotel. You don't want to move, but I will make it worth your while. For the higher price of these two appraisals you can buy as good a house as you want anywhere in New York, and I will just double that price, to pay you for the trouble of moving." So Mr. Coster accepted double the highest appraisal of his house, let his friend Astor have it, and the Astor House rose, to become for two gen-

erations, at least, the leading hotel in New York.

AWARD TO LOWEST BIDDER.

The wide discrepancy in bids for the construction of buildings has always been a matter of wonder or indignation to the uninitiated—of wonder, if he attributes to mankind motives of common honesty; of indignation, if he regards most men as rascals. Whatever his viewpoint, the discrepancy exists and remains a mystery.

It is a fruit ful theme, one that is pressing upon the constructive intelligence of all factors actively identified with construction work. And distinctive progress is being made towards a solution. Among others, the Master Builders' Association of Boston has been vigorously discussing this question in its monthly letters of recent date. In its latest number Secretary William H. Sayward says:

"Owners and observers have been puzzled in estimates submitted by contractors and have remarked that there must be something wrong when figures submitted are so wide apart. The 'something wrong' is in the lowest-bidder principle. The contractor who bids extraordinarily low, in nine cases out of ten, does so because he is very anxious to get the work to enable him to carry his force of men along to meet the demands of some other undertaking, or he may have the less legitimate purpose of using payments that will be coming to him on the new work, to make up, bridge over, losses or retention of payments on other work he is just completing."

The continuance of unrestricted competition is not given approval by Mr. Sayward. The remedy suggested is to limit the competition to bidders of selective type. Says Mr. Sayward: "For work of either small or great proportions, the safe and sane method of procedure is to open bidding only to concerns that are qualified in every way to perform the work to be undertaken."

One way to escape the income tax is to quit advertising and do less business.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Twenty-second and Arch streets, \$25,000. E. Cunningham (O and C), 2214 Chestnut street. Brick, 1 story, 147x100 feet, slag roof.

Garage, 929 Fillmore street, \$500. John Fotheringham (O and C), 3367 Frankford avenue. Brick, 1 story, 12x18 feet, slag roof.

Garage, 1509-11 Germantown avenue, \$5,000. Harry Katz (O), on premises. Lester M.

Shestock (C), 322 Dickinson street. Brick, 1 story, 40x95 feet.

Garage, Columbia avenue and Patton street, \$20,000. Columbia Garage Co. (O), Franklin Bank Building. Joseph R. Smith (C), Franklin Bank Building. Brick, 1 story, 60x238½ feet, slag roof.

Garage, Fifty-ninth and Lansdowne avenue, \$4,500. J. J. Grogan (O), 4931 Reno street. E. Beckershoff (C), 5153 Walnut street. Brick,

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1 story, 34x90 feet, slag roof.

Factory, 220 South Quince street, \$50,000. S. S. White Dental Manufacturing Co. (O). Turner Concrete Co. (C). Reinforced concrete, 4 stories, 74x59 feet, slag roof.

Open Shed, D and Erie avenue, \$4,000. A. Clem Co. (O); Seventh and Glenwood avenue. R. T. Molloy (C), 2316 East Lehigh avenue. Frame, 78x120 feet.

Garage, 5317 Germantown avenue, \$3,000. Chas. Y. Scully (O and C), 5352 Germantown avenue. Brick, 1 story, 21x90 feet and 16x20 feet, slag roof, cement floor.

Garage, 4100 Manayunk avenue, \$500. M. Duvan (O and C), 4151 Cresson street. Stone, 1 story, 20x20 feet, tin roof.

Garage, Tioga and Coral streets, \$300. H. Shreiker (O), on premises. W. Yost (C), 2751 Frankford avenue. Brick, 1 story, 16x22 feet.

Store and Dwelling, Eighty-fourth and Brunswick avenue, \$3,500. D. Cohen (O), on premises. Louis Shpeen (C), 513 Tasker street. Brick, 2 stories, 16x55 feet, slag roof.

Garage, Almond and Westmoreland streets, \$1,850. John Williams (O), 2570 East Westmoreland street. F. Pezzillo (C), 3347 Almond street. Brick, 1 story, 10x90 feet.

Offices (3), Thirty-first and Passyunk avenue, \$2,500. Atlantic Refining Co. (O and C),

3144 Passyunk avenue. Brick, 1 story, 9x10 feet, slag roof, 3 buildings.

Garages (2), Crittenden and Mt. Pleasant, \$4,400. A. S. Tourison (O and C), 7014 Boyer street. Stone, 2 stories, 21x26 feet, slate roof, hot water heating.

Dwellings (9), E and Arthur streets, \$17,500. W. E. Strock (O and C), 7353 Second Street Pike. Brick, 2 stories, 16x37 feet, slag roof, hot air heating.

Dwellings (2), Miller street and Lafever, \$3,600. Louis Ahlers (O and C), 4433 Salmon street. Brick, 2 stories, 14x40 feet, slag roof.

Dwellings (2), 315-17 Rockland street, \$5,000. Carl Metz (O), 4907 North Lawrence street. Elmer Laubaugh (C), 274 Rubicon street. Brick, 2 stories, 14x29 feet, slag roof.

Boiler House, Lehigh avenue and Edgemont street, \$1,300. O'Neill Bros. (O), on premises. Wm. Marriott (C), 3020 North Second street. Brick, 1 story, 10x25 feet.

Garage, Sixtieth and Jefferson streets, \$550. Mrs. E. Bins (O), on premises. A. Verdi (C), 6145 Girard avenue. Brick, 1 story, 14x18 feet, slag roof.

Dwelling, Arrott and Castor Road, \$4,000. J. Fotheringham (O and C), 3367 Frankford avenue. Stone, 2 stories, 40x32 feet, tile roofing.

Brick, second story, 15x50 feet, use old roof.

Nurses' Home, Sansom and Clifton streets, \$4,000. The Jefferson Medical College (O and C), Tenth and Sansom streets. Interior alterations.

School, Oriana and Earp streets, \$15,000. Rev. Archbishop Prendergast (O), Eighteenth and Race streets. John A. Engel (C), 3006 North Fifth street. Brick, 1 story addition, 85x49 feet, irregular, and 18x7 feet, slag roof.

Dwelling, 4016 Market street, \$2,000. S. J. Hampp, on premises. The Bralton Co. (C), 119 South Thirty-ninth street. Alterations, 3 bath rooms.

Dwelling, 3944 Market street, \$3,000. K. Halbkewacks (O), on premises. The Bralton Co. (C), 119 South Thirty-ninth street. Alteration, 1 bath room, heating and lighting.

Garage, 4613-23 Regent street, \$500. Girard Trust Co. (O), on premises. T. H. Waldron (C), 428 Wiota street. Alterations.

Store and Dwelling, 275 South Fifty-second street, \$500. S. Spector (O), 226 South Fiftieth street. F. E. Bland (C), 252 North Fifteenth street. Hot water heating.

Residence, 2250 North Broad street, \$5,000. C. Kaucher (O), on premises. D. J. MacNamee (C), 1621 North Fifteenth street. Plastering, plumbing and heating.

Garage, 802 North Broad street, \$3,200. Wm. Young (O), Philadelphia. Wm. Steele Sons Co. (C), 34 South Fifteenth street. Alterations.

Dwelling, 5149 North Camac street, \$1,125. T. G. Bachran (O), on premises. Conneen Const. Co. (C), 1737 Filbert street. Alterations.

Store and Dwelling, 867 North Fortieth street, \$400. J. E. Laughran (O), 213 Race street. Wm. Meyer Co. (C), 216 Quarry street. Brick, 1 story, 19x25 feet.

Factory, 713 North Hutchinson street, \$1,500. Chas. Kaufman (O), 710 North Percy street. Bauman & Leeds (C), Eighth and Parrish streets. Rebuild wall.

Dwelling, 1912 Arch street, \$850. Charles Schenk (O), on premises. C. Hoffman (C), 210 Dickinson street. Fire escape.

Church, Sixty-first and Hazel avenue, \$15,000. St. George P. E. Church (O), on premises. The Driscoll Co. (C), Stock Exchange. Stone, 14x23 feet, 28x38 feet and 16x36 feet.

Garage, 1311-13 Irving street, \$400. J. E. Caldwell & Co. (O), Juniper and Chestnut streets. Boon & Sample (C), 1708 Arch street. Hot water heating system.

Stable, 876 and 79 North Perth street, \$1,250. Fleik Bros. (O), 150 North Lytle street. George Roberts (C), Willow Grove, Pa. Fire repairs.

Dwelling, 2030 North Thirteenth street, \$2,000. John H. Mudgett (O), 2028 North Thirteenth street. J. F. Trent (C), 2041 Master street. Brick, 2 stories, 20x14 feet, slag roof.

Dwelling, 4121 North Marshall street, \$300. S. Aringhar (O and C), on premises. Brick, 1 story, 12x8 feet.

Factory, Tacony and Dineau streets, \$4,750. Miller Lock Co. (O), 4530 Tacony street. Alphous Custodis Chimney Const. Co., 1419 PPennsylvania Building. Brick chimney, 150 feet high.

Shop, Thirtieth, south of Locust street, \$7,000. Morris Wheeler Co. (O), Sixteenth and Market street. Wm. Steele & Son Co. (C), 32 South Fifteenth street. Iron on iron, 1 story, 160x43 feet, 140x64 feet.

Power House, Byberry Farms, \$7,700. City of Philadelphia (O), City Hall. Wm. Linker Co. (C), Ninth and Cherry streets. Brick, 1 story, 40x30 feet, four wings.

Store, 1318 Chestnut street, \$1,500. Palsum Bro. (O), Philadelphia. J. H. Roberts (C), Lansdown. Two new skylights and plastering.

Proposals

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INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 6, 1917.—Sealed proposals will be opened in this office at 3 P. M. August 28, 1917, for the completion of the extension of the United States Post Office and Court House at Harrisburg, Pa. Drawings and specifications may be obtained from the Superintendent of Construction at the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 10, 1917.—Sealed proposals will be opened in this office at 3 P. M., September 24, 1917, for the construction of the United States post office at Cohoes, N. Y. Drawings and specifications may be obtained from the custodian of the site at Cohoes, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Alterations and Additions

Hotel, Broad and Locust streets, \$10,000. Hotel Walton Co. (O), on premises. H. E. Baton (C), 1713 Sansom street. Interior alterations, plastering, tile, painting, marble.

Hospital, Broad and Wolf streets, \$2,000. M. E. Hospital (O), on premises. H. E. Baton (C), 1713 Sansom street. Interior alterations.

Dwelling, 1522 Pine street, \$1,000. Mrs. C. Madera (O), on premises. Charles Gilpen (C), Harrison Building. New bath room, brick, third floor, 8x8 feet.

Store, 705 South street, \$485. Miss A. M. Yeager (O), 643 South Fifty-first street. N. Rozinsky (C), 520 Dickinson street. New flush bulk.

Store, 2430 Kensington avenue, \$1,000. John Carlin (O), 1726 Master street. M. Morrison & Son (C), 2322 North Howard street. Alterations.

Stable, 1734-36 North Nineteenth street, \$4,000. Roofing Supply Co. (O), Venango and Edgemont streets. Diamond Building Co. (C), 1811 Columbia avenue. Brick, 1 story, 34x62 feet, slag roof.

Store and Dwelling, Hancock and Cumberland streets, \$350. Rev. D. Corbett (O), Overbrook. Cunningham (C), 4326 Paul street. New bulk front.

Offices, Sunset and Norwood avenue, \$8,000. George Thomas, Jr. (O), on premises. Wm. Gruhler (C), 219 High street. Stone, 1 story, 40x24 feet, shingle roof.

Apartments, 1709 Wallace street, \$600. H. H. Smith (O), 1915 Wallace street. C. T. Moore (C), 633 North Twentieth street. Hot water heating plant.

Dwelling, Wissahickon and Clevedon avenue, \$1,000. Adolph Loeb (O), on premises. H. H. Burrell (C). Interior alterations.

Dwelling, 1720 Ludlow street, \$1,000. John C. Mellon, 1635 Ranstead street. George C. Dougherty (C), 1725 Ludlow street. Brick, 1 story front addition, 166x5 feet.

Church, Fifth and Cayuga streets, \$300. Rev. P. Kanois (O), on premises. Frank Mickils (C), Real Estate Trust Building.

Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

Artesian Wells. Artesian Well Drilling Co., Real Estate Trust Bldg., Phila. Ridpath & Potter Co.....Bourse Bldg., Phila. John B. Rulon.....1355 Colwyn st., Phila.	Fireproofing. Consolidated Expanded Metal Co., 2200 Arch st., Phila. Pearce Fireproof Co.....1345 Arch st., Phila. Trussed Concrete Steel Co., Commonwealth Bldg., Phila.	Reinforcing Bars. Trussed Concrete Steel Co., Commonwealth Bldg., Phila. Witherow Steel Co., Commercial Trust Bldg., Phila.
Artists' and Architects' Supplies. Chas. H. Robbins.....125 S. 11th st., Phila. Warren-Knight Co.....136 N. 12th st., Phila. F. Weber & Co.....1125 Chestnut st., Phila.	Floor Plates. Alan Wood Iron and Steel Co., Widener Bldg., Phila.	Roofing. The Barrett Co.....New York City and Phila. Roofing Slate. C. F. Shellenberger...Builders' Exchange, Phila.
Blue Prints. Chas. H. Robbins.....125 S. 11th st., Phila. F. Weber & Co.....1125 Chestnut st., Phila.	Furnaces and Ranges. Borden Stove Co.....1311-13 Arch st., Phila. Henry M. Miller.....46-48-50 N. 2d st., Phila. Richardson and Boynton Co. 1342 Arch st., Phila.	Roofing Tile. O. W. Ketcham.....Builders' Exchange, Phila. C. F. Shellenberger...Builders' Exchange, Phila.
Blue Print Paper. Chas. H. Robbins.....125 S. 11th st., Phila.	Garage (Portable). Service Equipment Co.....Bourse Bldg., Phila.	Sash Pulleys. Grant Pulley and Hardware Co., 101 Park ave., N. Y., and 339 Land Title Bldg., Phila.
Brick (Face, Etc.). O. W. Ketcham.....Builders' Exchange, Phila.	Gas and Gas Appliances. United Gas Improvement Co., Broad and Arch sts., Phila.	Scales. The Fairbanks Co.....7th and Arch sts., Phila.
Brick Renovating. Adolph Christensen.....1433 Brown st., Phila.	Granite. Holmesburg Granite Co., Commercial Trust Bldg., Phila.	Sewer Pipe and Flue Linings. C. F. Shellenberger...Builders' Exchange, Phila.
Builders. Graham-Campion Co.....Otis Bldg., Phila. Hogg Construction Co., Inc., 1634 Sansom st., Phila.	Heating Contractors. Bowers Bros. & Co.1629 Ludlow st., Phila.	Sewage Disposal. Harrison, Mertz & Emilen, Inc., Commercial Trust Bldg., Phila.
Builders' Supplies. P. H. Fairlamb Co.....115 S. 30th st., Phila. David France Co., Tasker st. wharf, Delaware River, Phila.	Heating Boilers. Richardson and Boynton Co. 1342 Arch st., Phila. Keystone Supply & Mfg. Co. 913 N. 9th st., Phila.	Soundings. Artesian Well Drilling Co., Real Estate Trust Bldg., Phila.
Cement. P. H. Fairlamb Co.....115 S. 30th st., Phila. David France Co., Tasker st. wharf, Delaware River, Phila.	Insurance. Harris J. Latta.....Penna. Bldg., Phila. Insurance Co. of North America, 3rd and Walnut sts., Phila.	Sprinklers. Merchant & Evans Co., 2035 Washington ave., Phila.
Columns (Metal). Pearce Fireproof Co.....1345 Arch st., Phila.	Lumber. James E. Tague & Co., 10th and Columbia ave., Phila.	Structural Engineer. Harry C. Eisenbise Co.....Penna. Bldg., Phila.
Composition Flooring. Philadelphia Mineral Flooring Co., 5632 Summer st., Phila.	Marble Mosaic. Belfi Bros. & Co.....1923 Market st., Phila. Italian Marble Mosaic Co. ...433 Spruce st., Phila. Roman Mosaic and Tile Co. 435 Green st., Phila.	Surety Bonds. Harris J. Latta.....Penna. Bldg., Phila.
Dampproofing. The Barrett Co.....New York City and Phila.	Metal Lath. Consolidated Expanded Metal Co., 2200 Arch st., Phila.	Switchboards. Large-Dail Mfg. Co.606 Cherry st., Phila.
Door Hangers. Grant Pulley and Hardware Co., 101 Park ave., N. Y., and 339 Land Title Bldg., Phila.	Paints and Varnishes. Felton, Sibley & Co.....136 N. 4th st., Phila.	Terra Cotta (Architectural). O. W. Ketcham.....Builders' Exchange, Phila.
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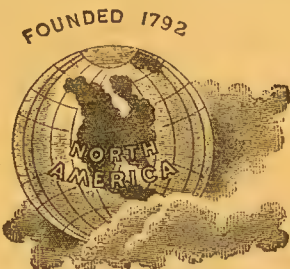
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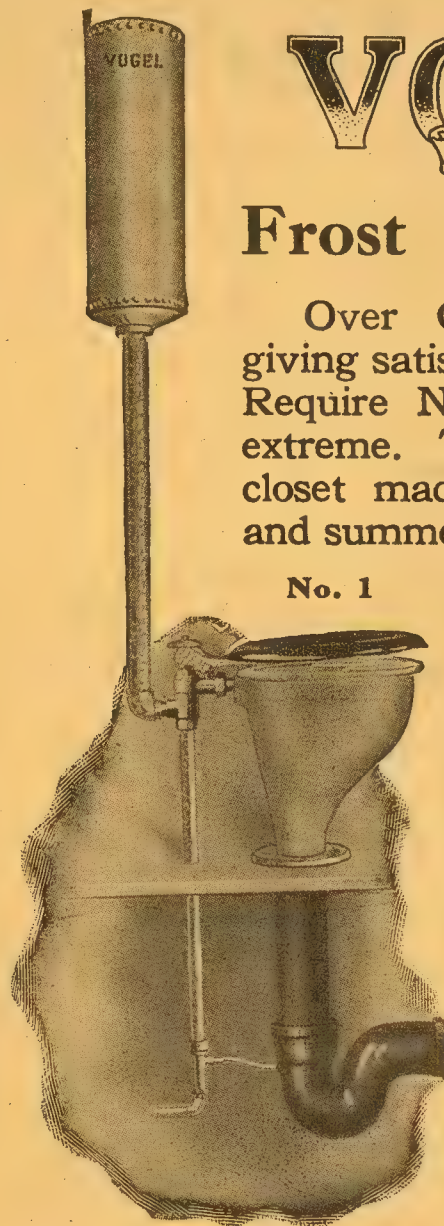
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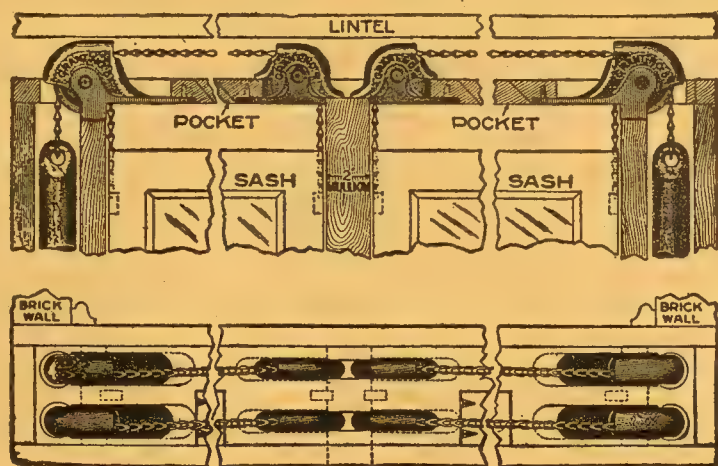
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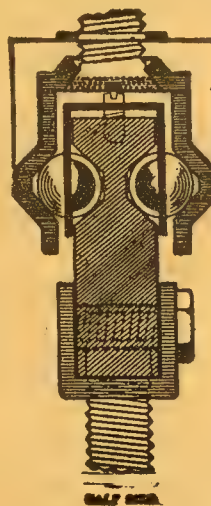
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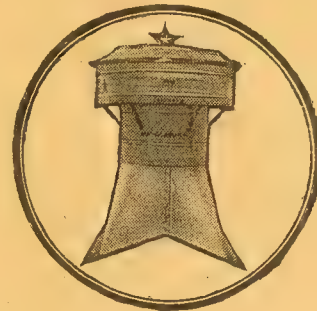
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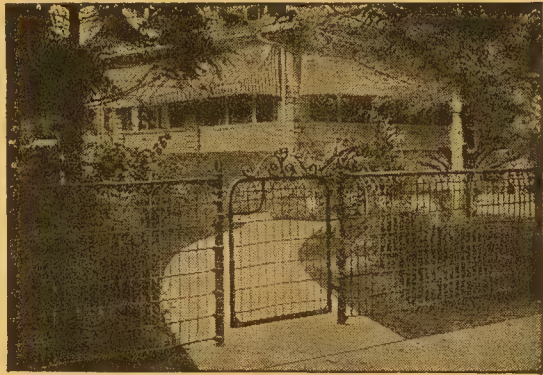
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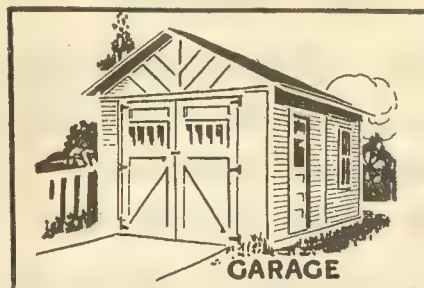
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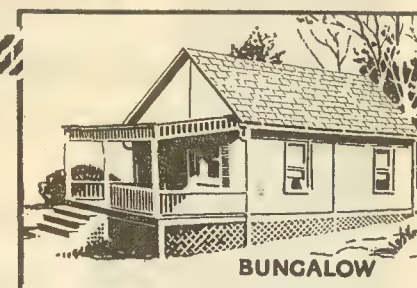
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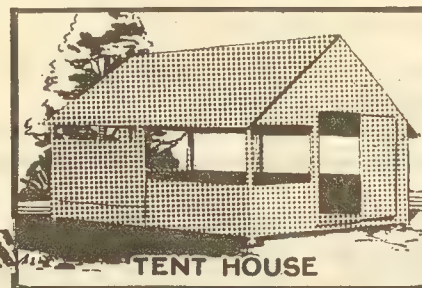
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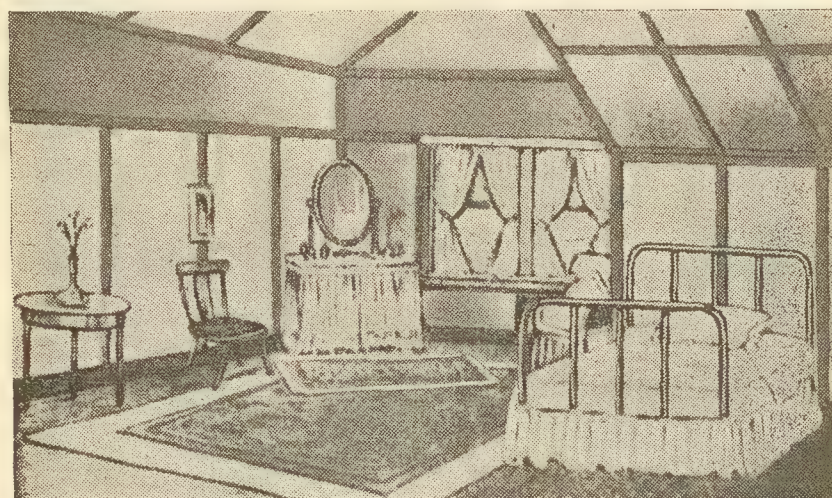
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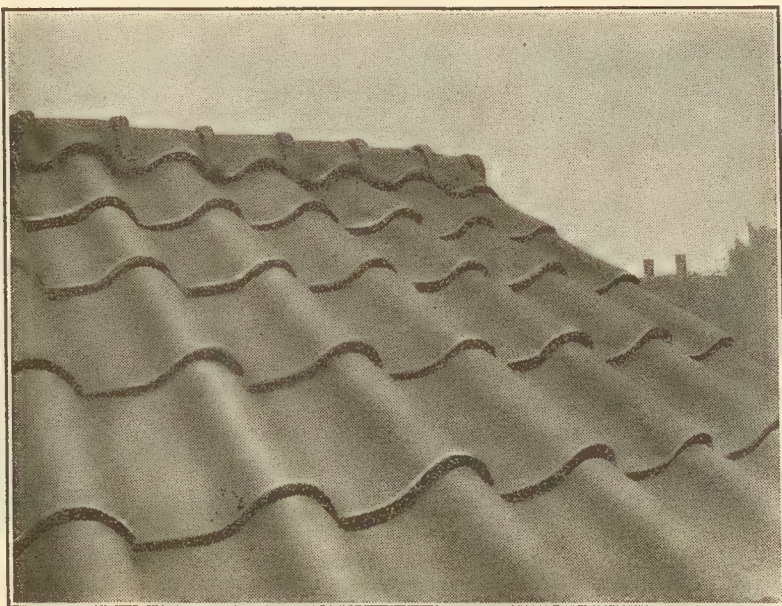
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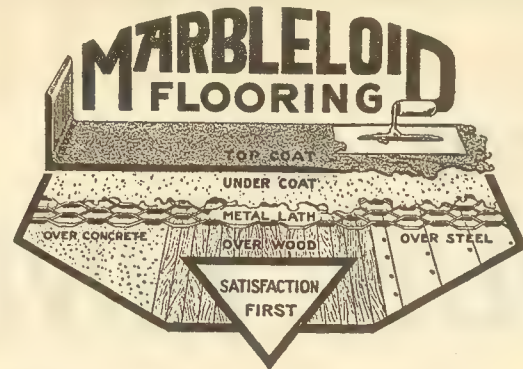
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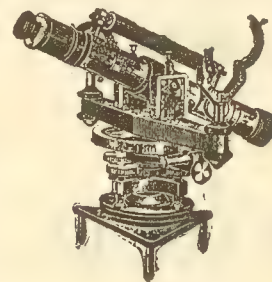
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VOLUME XXXII
Number 34

PHILADELPHIA
August 22, 1917

BUILDERS' GUIDE

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As The Editor Sees It



WHEN Philadelphia comes to the task of framing restrictions, under a zone law similar in some degree to that in process of enforcement in New York, one of the most important features of such restrictions will be a set of regulations governing the subject of occupancy. Most readers, certainly most lay readers, rest under the impression that zoning laws have to do solely with the question of limiting the height to which buildings may be erected. As a matter of fact, the subject of height restriction forms but a small and unimportant item in the broad general scope of zoning regulations. To the current number of the *New York Real Estate Record* Mr. Francis P. Schiavone, a well-known architect of Manhattan, contributes a very interesting paper dealing with the occupational restraint imposed under the zoning law. That New Yorkers are, perhaps, as little acquainted with the ramifications of the new law as are Philadelphians would seem to be indicated by the tone of Mr. Schiavone's opening paragraph.

"Although the restrictions as to the use or occupancy of buildings and premises, commonly called the Zone Law, have been in effect in all parts of New York City for a year, there is still sufficient doubt among the public as to what the law permits and what it prohibits to warrant a short exposition," says Mr. Schiavone. "The following paragraphs

are offered unofficially, but they should convey a fairly accurate idea of the operation of the Zone Law.

The city has been divided into four classes of districts or zones. The "unrestricted" is all that its name implies; the Zone Law applies no restrictions whatever to the use or occupancy of buildings or premises located within it. The "undetermined" districts comprise that part of the city which was so undeveloped as to give little or no sign of its future. It is, pending its zoning, an unrestricted district. The remainder of the city is in either the "business" or "residence" district. By "business" or "residence" is meant, not necessarily the character of its development, but rather the zone into which it has been placed by the Board of Estimate and Apportionment, as shown on its zone maps.

* * *

THE Zone Law may be divided into two grand divisions: 1, that applying to new buildings erected after July 25, 1916, and 2, that applying to existing buildings and to changes in occupancy in existing and future buildings. For brevity, the word buildings will be employed to include all structures and premises, including lands which are unbuild upon.

Referring to new buildings the uses permitted in the residence zones are defined by the Zone Law as follows:

Section 3. Residence Districts. In a residence district no building shall be

erected other than a building, with its usual accessories, intended or designed exclusively for one or more of the following specified uses:

- (1) Dwellings, which shall include dwellings for one or more families and boarding houses, and also hotels which have thirty or more sleeping rooms.
- (2) Clubs, excepting clubs, the chief activity of which is a service customarily carried on as a business.
- (3) Churches.
- (4) Schools, libraries or public museums.
- (5) Philanthropic or eleemosynary uses or institutions, other than correction institutions.
- (6) Hospitals and sanitariums.
- (7) Railroad passenger stations.
- (8) Farming, truck gardening or green houses.

* * *

IN a residence district no building or premises shall be used for any use other than a use above specified for which buildings may be erected and for the accessory uses customarily incident thereto. The term accessory use shall not include a business nor shall it include any building or use not located on the same lot with the building or use to which it is accessory. A private garage for more than five motor vehicles shall not be deemed an accessory use.

These are general classifications and as might be expected do not specifically

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include many border-line cases. A border-line case is generally either a combination of a permitted and a prohibited use or a use which may be either a prohibited or a permitted use depending on its individual characteristics. Thus, while schools are permitted in a residence district, a school for domestics would not be permitted if it included an employment agency among its activities. There would be no objection to the school in the residence district provided its employment agency were located in a business or unrestricted zone. So also in the case of a school for the blind having a department where books for the blind are embossed and bound, a distinction must be drawn between the use which may be a proper accessory of the school and a use which may be a business or industry and not properly an accessory. If the embossing and binding were done chiefly or wholly by the blind such activity might be construed to be a proper function of the school, but if others were employed in this bookmaking, it would be considered as a use incompatible with the restrictions of the residence district even though the books were made for the blind.

* * *

A RESIDENCE having on the same lot a large number of dog kennels for the owner's dogs might properly be considered an accessory use only if there is an entire absence of business, whether sale, service or exhibition, on the premises. Of course, if the dogs constituted a nuisance it could be abated under the Sanitary Code.

* * *

A GARAGE may be erected in a residence district only upon the same lot with a residence. It must be occupied exclusively by the cars owned and used by the occupants of the residence; space may not be let to those not living on same lot. It must be free from all business use. Thus a garage might not be erected for public hacks, taxicabs or other cars let or hired out even though the owner and operator owned and occupied the residence on the same lot. So also a distinction must be drawn between a garage which is an accessory to a residence and a residence accessory to a garage. Thus a building, being a garage on the ground floor and a residence above, might be classified according to the importance or size of its uses. If the area devoted to the garage were as great as or greater than that given over to the residence, it should most certainly be considered a garage with an accessory residence. Such a use would not be permitted in a residence district. In any case a garage for more than five cars is excluded.

UNLIKE the rules of the Fire Prevention Bureau the Zone Law includes motorcycles as well as automobiles under the term motor vehicles.

Stables are to be treated in the same manner as garages. A limit of five horses is placed upon private stables. The stable must be upon the same lot as the residence to which it is accessory and the horses must be used by the occupants only of the residence and not in any business or trade. A combined stable and garage will be limited as to the ownership and use of horses and cars as above. The aggregate number of horses and cars may not exceed five.

* * *

HOTELS having thirty or more sleeping rooms are permitted in a residence district. A hotel having less than thirty is not permitted. The question as to the admissibility of a cafe, restaurant, bowling alleys, barber shop, cloak room, etc., all of them businesses if conducted independently of the hotel, must be decided by the conditions in each case. It is reasonable to class these activities as necessary accessories of a hotel if they, their entrances and their practices, insure their being patronized exclusively by the guests of the hotel. If they are arranged to invite an outside trade they will fall into the ordinary business classification and thereby be excluded from the residence district.

Clubs are permitted in a residence district except such clubs as have as their chief activity a use commonly construed as a business. Thus a club, so called, having as its primary activity a cafe, dance hall, athletic show or other business would be excluded from a residence district.

A museum is another occupancy permitted in the residence zone, but a distinction must be drawn against those pseudo museums, the chief or sole purpose of which is to sell or advertise the objects exhibited. Thus the commercial picture gallery would not be permitted in a residential zone.

* * *

A THEATRE, show or circus is to be regarded as a business, but it would seem reasonable to permit occasional private theatricals in a residence or club in a residence district if not conducted for profit.

A skating rink, ice or roller, tennis courts or other such places will be construed as a business use of the premises if admission is charged or if they are in any way conducted for gain. Advertising signboards are also to be construed as a business occupancy.

Greenhouses are permitted in a residence district, but if a greenhouse were erected in a well-developed section, e. g., lower or central Manhattan, for the chief purpose of selling flowers not

grown on the premises or conducting the business of florist, it would be construed as a business and not permitted to locate in a residence zone.

* * *

A QUESTION which has often arisen is as to the status of a milliner or dressmaker. The Zone Law was not designed to prevent those household activities which may be carried on without changing the residential character of the street and will permit a dressmaker or milliner to enter a residence district so long as only occupants of the residence are engaged and no outside help is employed. There is, of course, the added requirement that the building be given none of the characteristics as a business structure. This same ruling applies to physicians' offices or artists' studios.

An interpretation of the Zone Law by the Board of Appeals holds that building exclusively for physicians' offices, laboratories and operating rooms and having an apartment only for the superintendent is to be deemed a sanitarium and as such admissible in a residence zone.

A nurses' home, so called, would not be permitted to locate in a residence district if, in addition to being the home of one or more nurses, it was an employment agency for others.

* * *

THE foregoing extracts from Mr. Schiavone's paper should go far to convince the intelligent reader how very intricate and confusing a task is that of devising a set of regulations, the terms of which may be stretched to cover the widely diversified and constantly varying conditions of metropolitan centers. Here in Philadelphia, while there has been much loose talk, from time to time, of a zoning system, nothing practical beyond the appointment of a commission to take up the question appears to have resulted.

* * *

BILLBOARD and advertising sign board structures deface many of our finest streets. Garages, stables, factory structures break in unhindered at any point the owner sees fit to select. Garish movie theatres take a stand cheek by jowl with costly private residences. Gasoline stations butt into the most attractive sections unhampered by official or other restrictions. Until within three months it was possible for a dealer in rags and waste to set up anywhere in Philadelphia the only defense left the abutting property owner being a plea to the court in injunction proceedings. A friend of mine called upon the Health authorities not long since to protest against a cheese factory which an alien sought to set up within a few doors of his home in the cellar of a building altogether unsuited for the purpose. He was informed that the Health authori-

ties were without jurisdiction unless the factory, following its establishment, became a public nuisance. Next door to another friend of mine a neighbor tore out the cellar space beneath his porch and built in a small garage. Four automobile owners store their cars in this tiny garage, subjecting the adjoining residents to annoyance and discomfort at all hours of the day and night. In one of the nicest residential sections of West Philadelphia within the past two weeks a pool and billiard room opened up, frequented by noisy, half-grown boys and filling the surrounding neighborhood with the sound of clicking pool balls and noisy laughter long after the usual retiring hours.

These are abuses every one of which

is regulated in New York City by the excellent zoning law in force in that city. Here, the affected resident is practically without redress. * * *

AMONG ordinances which should be taken up by Councils and passed and rigidly enforced is one regulating the location of what are known as waste or refuse dumps. Under existing laws it is possible for a contractor to lease or buy a low-lying or swampy piece of land and fill it in with ashes, rubbish and litter of every description unmolested. The depreciation wrought in surrounding property by the adjacency of a "dump" of this character is sharply exemplified in several of the outlying sections of Philadelphia.

establishing an information bureau or business reference library, through which the members may obtain the name and address of any maker of any particular product. This promises to be a useful service, and manufacturers are likely to profit by having their catalogues on file at these headquarters.

* * *

Grosvenor Atterbury, architect, has filed plans for the restoration of the cupola of the New York City Hall, after the design of John Macomb, who originally planned the structure in 1803. The tower will be similar in exterior appearance to the one which crowned the structure when it was first erected. After the fire on May 10 of this year, when the cupola was practically destroyed by fire, the suggestion was advanced that the tower be restored to its original form. The new cupola will be built of fireproof terra cotta block and reinforced concrete covered with copper, with a steel truss support. The estimated cost of the alteration has been placed at \$30,000.

* * *

The American Iron and Steel Institute will hold its autumn meeting at the Hotel Sinton, Cincinnati, October 26 and 27.

* * *

With the exception of a slightly decreased demand, there is but little change in the building material situation. Car and labor shortage continue to be the principal thorns in the sides of the manufacturers and dealers in structural materials and supplies, and while the freight conditions have recently indicated some signs of improvement, still much more is necessary before this great problem will be considered solved to the satisfaction of the shippers.

* * *

George A. Fernley, secretary-treasurer of the Metal Club of Philadelphia, has been granted a leave of absence, and has been commissioned as a first lieutenant in the Ordnance Department of the United States Army. Mr. Fernley is stationed at Washington, D. C., where his duties comprise the buying of hardware and kindred lines. During his leave of absence his duties in connection with the Metal Club have been assumed by his brother, Thomas A. Fernley.

* * *

The National Association of Brass Manufacturers will hold its next meeting at Milwaukee on September 27 and 28.

* * *

Comparatively a few years ago there was the cry that many of our large cities were overbuilt. Now the population increases in many localities have caught up with construction and there is a complaint that there are not nearly enough accommodations to satisfy the number of families seeking them. Factory and warehouse space and living quarters are particularly in demand and the foresighted investor and speculative builder who will immediately institute measures to remedy the situation by starting the erection of buildings of these types will be in a position to obtain large returns from his venture. Profits seem to be assured notwithstanding the excessive

EDITORIAL NOTES

The National Housing Association will hold its annual meeting at Chicago October 15-17, 1917. Headquarters, Hotel LaSalle. For information inquire of Lawrence Veiller, secretary, 105 East Twenty-second street, New York City.

* * *

The present outlook in the building and construction field is for a continuation of progress in structural activity and unless something unforeseen occurs there is no apparent reason why the builders of this country and the numerous lines of manufacturing endeavor that are dependent upon them, should not begin to enjoy better times.

* * *

The Bridgeport Brass Co., of Bridgeport, Conn., announces the removal of its New York office to the Woolworth Building, 232 Broadway.

* * *

Harry F. Briscoe, formerly of Fagan & Briscoe, Hoboken architects, and recently of O'Rourke & Briscoe, Newark, is now with John T. Simpson. Offices have been established in the Essex Building, Newark, under the firm name of Simpson & Briscoe.

* * *

Electrical contractors of New Jersey, at their semi-annual meeting at Price's Hotel at Pleasure Bay, disbanded and afterward reorganized under the name of The Electrical Contractors' and Dealers' Association of New Jersey. The new organization admits jobbers, manufacturers, architects and central station managers. Nearly 200 members enrolled in the new association. The former officers held over, with Charles R. Newman, of Passaic, president; Daniel H. Smith, of Trenton, vice-president; Paul H. Jaehning, of Newark, treasurer; J. Van Dyke, of Asbury Park, secretary, and the following board of directors: Carl F. Adams, Trenton; R. P. Ward, Dover; E. P. Strang, Camden; George E. Davis and Benjamin F. Sprague, of Newark.

The American Foundrymen's Association will hold its twelfth annual exhibit of foundry and machine shop equipment in the Mechanics Building, Boston, Mass., September 25-28, inclusive.

* * *

Although the erection of manufacturing and commercial structures continues to be the most prolific source of building activity at the present writing, there is a possibility that this type of construction will slow down as other phases of structural work become more active. A prominent industrial engineer is discussing the building situation this week stated that according to his line of reasoning and the surface facts, the end of the construction boom for industrial and commercial buildings is almost in sight and that a marked reduction in the volume of operations of this character is naturally bound to follow. The individuals and concerns that have erected new structures during the last year or two have anticipated their requirements for some time ahead. The existing high material prices have not affected this type of building endeavor to any extent, as the cost of the operations were paid out of the immense profits that were obtainable during the two past years of unprecedented prosperity. The situation contains a ray of hope, however, from the prospect that general building activity will become more prevalent over a wide territory.

* * *

The Grant Pulley and Hardware Company, D. Stanley Gross, Philadelphia manager, announces the removal of its local office to 339 Land Title Building.

* * *

Manufacturers and jobbers of sheet metal products, tools, equipment and supplies are requested to send their catalogues and trade literature to headquarters of the new Roofers' and Sheet Metal Men's Club, Herman Weinberger, secretary, 47 West Forty-second street, New York City. Mr. Weinberger is

cost of labor and building materials. The seekers of rentable space are quite willing to pay their share of the increased cost of construction if only they are able to obtain the accommodations they desire. Rents in all types of buildings are steadily climbing and real estate men and building managers state that in the main their clients first desire to be comfortably located and that additional rentals are expected and are virtually an after consideration.

The American Foundrymen's Association will hold its twelfth annual exhibit of foundry and machine shop equipment in the Mechanics Building, Boston, Mass., September 25-28, inclusive.

One of the many excuses advanced for the recession in speculative building operations is that material dealers and jobbers in some instances have refused to supply materials and supplies to the smaller builders unless fifty percent. of the purchase price was deposited with the order. Large building contractors were not affected by this ruling, but the smaller speculative builder, who erects but one or two structures at a time, yet annually accounts for an important part of the total volume of buildings, is prevented from starting his development unless adequate credit is advanced.

The Chicago Cement Machinery and Building Material Show will be held in the Coliseum, Chicago, February 6-13. The show will be held under the auspices of the National Exhibition Company, 123 Madison street, Chicago.

The Prudential Insurance Company of America has loaned to the Pennsylvania Terminal Real Estate Company, for five years at 5 per cent., \$3,000,000 on the building now in course of construction, to be known as the Hotel Pennsylvania, which will occupy the entire block front on the east side of Seventh avenue, between Thirty-second and Thirty-third streets, opposite the Pennsylvania station, New York City. The loan is one of the largest placed on record during recent years. The hotel, when completed, will be twenty-four stories in height, and will have a frontage of 200 feet on Seventh avenue, and 400 feet in each street.

The International Association of Municipal Electricians will hold its annual convention at Niagara Falls from September 11-14. Robert J. Gaskill, Fort Wayne, Ind., is president.

Reports from various sections of the country indicate that although there has been an appreciable slump in structural operations the outlook from the majority of the districts is indicative that the condition will speedily improve. The most potent reason thus far given for the slump recently experienced is high material prices combined with a hesitancy on the part of prospective builders to commit themselves until there was as-

surance that no severe financial disturbance would follow the advent of the United States into the World War. That there will be no economic upheaval is now conceded and, with a tendency toward lower material prices, a strong revival of structural activity is looked for by those in close touch with the building situation.

The National Paint, Oil and Varnish Association will hold its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

The members of the several committees of the National Association of Sheet Metal Contractors have been appointed by President George Harms, with the chairman first named in each case as follows:

Warm Air Furnace—E. B. Langenberg, St. Louis, Mo.; Frank J. Hoersting, Dayton, Ohio; John Hussie, Omaha, Neb.; Whilmore R. Taylor, Philadelphia, Pa.; William E. Lamneck, Columbus, Ohio.

Lecture—Frank Hiller, Cleveland, Ohio; Otto Geussenhainer, Sheboygan, Wis.; Frank Eynatten, Peoria, Ill.; Otto E. Cluss, St. Louis, Mo.; J. D. Riley, Pittsburgh, Pa.; F. K. Chew, New York, N. Y.; W. J. Kaiser, Columbus, Ohio; Daniel Stern, Chicago, Ill.; E. L. Seabrook, Philadelphia, Pa.

Apprenticeship—Otto E. Cluss, St. Louis, Mo.; G. G. Jones, Racine, Wis.; Charles A. Puckett, Brooklyn, N. Y.; Peter Johnson, Peoria, Ill.; H. C. Knisely, Chicago, Ill.; Charles N. Louis, Peoria, Ill.; R. C. Jeske, Milwaukee, Wis.; J. C. Specht, Los Angeles, Cal.; Frank Treuchet, Springfield, Mass.

Trade Relations and Policy—Edwin L. Seabrook, Philadelphia, Pa.; John B. Wallig, Kenosha, Wis.; Norris H. Tripp, New Bedford, Mass.; Frank B. Higgins, St. Louis, Mo.; R. Jobst, Peoria, Ill.

Fire Prevention—Fred, deConigh, Chicago, Ill.; American Sheet Metal Works, New Orleans, La.; John Bogenberger, Milwaukee, Wis.; Paul L. Biersach, Milwaukee, Wis.; Willis Manufacturing Company, Galesburg, Ill.; C. F. Kornbrodt, Kansas City, Mo.; H. C. Knisely, Chicago, Ill.; E. E. Miller, Kansas City, Mo.

Overhead Expense—William McLroy, Pittsburgh, Pa.; George Van Landegend, Holland, Mich.; W. A. Fingles, Baltimore, Md.; Martin Walsh, San Antonio, Texas; D. M. Haines, Chicago, Ill.; W. D. Shafer, Peoria, Ill.

Trade Development—George Thesmacher, Cleveland, Ohio; E. B. Langenberg, St. Louis, Mo.; H. C. Knisely, Chicago, Ill.; J. C. Bayer, Portland, Ore.; Frank K. Chew, New York, N. Y.; A. G. Pedersen, Chicago, Ill.; Milwaukee Corrugating Company, Milwaukee, Wis.; N. & G. Taylor Company, Philadelphia, Pa.; American Rolling Mill Company, Middletown, Ohio; J. M. & L. A. Osborn Company, Cleveland, Ohio.

New York State has an average of nearly 1,000 accidents a day, excluding those which cause no loss of time other than the day or

shift in which accidents happen and which require no other medical attention than first aid. This fact was made public recently in the annual report of William C. Archer, Second Deputy Commissioner, of the Bureau of Compensation of the State Industrial Commission. The report states in part:

"There are in New York State 200,000 employers and 2,000,000 employees under the compensation laws. They receive an annual total wage of \$1,000,000,000," the report sets forth. Of the 315,000 cases requiring medical aid, the average cost is \$10, it is stated, and there are 60,000 claims annually for benefits, the average benefit being \$160.

"There are 1,200 deaths a year. The average death benefit is \$3,250. The total annual benefits are now running \$12,000,000, including medical."

The Borden Stove Company, manufacturers of the justly celebrated line of "Adelphia" Steam and Hot Water Boilers, Warm Air Furnaces, Ranges and Stoves, announces its removal from the old stove district on Second street, Philadelphia, to new and commodious offices and show rooms at 1311-1313 Arch street. A feature of the new offices is a special section which is to be reserved exclusively for the use of customers of the Borden Company visiting Philadelphia. Desk accommodations have been installed with every convenience such as telephone service, stationery, etc. The new Borden offices are in the heart of the shopping district and within easy reach of the big hotels and the leading railroad terminals.

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Don't expect outsiders to give you a big rating on a one-inch space.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

The "Builders' Guide" is the OLDEST, and the ONLY Architectural Publication in Pennsylvania.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.
—Exchange.

This is the age in which one man DOES ONE THING. You can run your BUSINESS. Find a man who can RUN YOUR ADVERTISING.

METHODS OF HANDLING BULK CEMENT

Elimination of Packages Results in Economy and Saving—Some Simple Methods Employed.

There is no argument needed to convince the contractor and engineer that the elimination of the package problem in connection with Portland cement would result in economy and saving. The question which is uppermost in the minds of superintendents on the job is how to handle and measure bulk cement from the time it arrives in railroad cars until it finds its way into the charging hopper of the mixer. There are several methods which have been successfully used, the choice of which depends upon the size of the job, railroad facilities and the general layout of the construction plant.

Bulk Cement Not Dusty to Handle.

To those who have not used cement in bulk it may seem reasonable to suppose that it will be exceedingly dusty to handle. Experience has proved the contrary. Bulk cement in transit becomes packed so that on its arrival at destination a man can walk on the surface without sinking in to any appreciable depth. This packing makes it possible to shovel the cement with practically no amount of dust being raised. There are no sacks to be shaken and that is perhaps the most dusty operation in the handling of cement for construction work.

On work where cement is being used in quantities of half a car a day or more, and where the mixing plant is located within reasonable distance of the receiving siding, the simplest method of handling bulk cement is to shovel it directly from the car into wheelbarrows of known capacity and then through the provision of proper runways, wheel the cement directly to the charging hopper of the mixer. Measurement, when this method of unloading and handling is used, can be effected in the same way that the measurement of coarse and fine aggregate is done. This method is applicable more properly to work of not very great size and where construction operations will cover only a comparatively short length of time.

Where Storage Is Provided.

Where railroad facilities and the size of the work warrant it, it is advisable to provide storage for cement. This may be made more advisable on account of car shortage or the liability of irregular shipment. The most commonly followed method where storage is provided is to unload the car of bulk cement by means of a power shovel. Shovels of the type used in handling grain can be used, but it has been found more practical and efficient to use a shovel of a scoop type, having sides and back so that the load first taken is retained. The flat shovel allows the cement to flow off either side and over the top, and for this reason is less desirable. The shovel should

be attached by cable to a motor or engine of from 7 to 10 horsepower. With this equipment 200 barrels can be unloaded from a car in three hours. The power shovel dumps the cement from the car into the boot of a bucket elevator, which in turn raises it, discharging into the storage bin. This method should be followed where the floor of the storage bin is approximately on the level of or above the railroad track. If the track level is well above that of the storage, cement can be spouted from the car by gravity to storage.

On some work where the mixing plant has been located at a greater or less distance from the receiving tracks and the main cement storage, bins have been erected over the mixers for stone, sand and cement. These bins are so constructed as to hold sufficient material to insure the continuous operation of the mixing plant. Where this condition holds a belt conveyor from the main cement storage can be laid to the bins feeding the charging hoppers of the mixer. This belt conveyor can be used by means of a screw conveyor running the length of the main cement storage.

Successful use has been made of automatic scales placed beneath the three material bins over the mixer for the accurate proportioning of mixes. The scales can be so set as to permit of any particular mix of concrete being delivered to the charging hopper.

The method above outlined, that is, the use of a power shovel and bucket elevator, is particularly applicable to the average plant manufacturing concrete products. It is evident that the construction of permanent storage facilities in such cases would be economical and efficient.

Industrial railways have been used to a considerable extent in unloading and handling bulk cement. Industrial track is laid parallel to the receiving siding and industrial cars are loaded direct from the sand, stone and bulk cement cars on the siding. In this case measuring boxes are affixed to each car of material, so arranged that one holding the proper amount of material for one batch of concrete can be dumped directly into the industrial car, which as it travels along receives all three materials in proper proportions for one batch of concrete. Industrial track leads to the mixing plant where the cars are dumped into the mixing hopper.

Bulk cement has been successfully used on work where the mixing plant was at a considerable distance from the receiving track. Tight bottomed dump wagons have been loaded directly from the car and driven to the work and the cement dumped into boxes from which it is drawn as needed. In such cases measurement is effected by the same means

as employed for the coarse and fine aggregates. The point might be raised that there would be no protection from damage by water if such a scheme were followed and accordingly attention is called to the fact that cement sacks do not keep cement from getting wet, but rather tend to absorb moisture, thereby actually increasing the liability of damage to cement by water.

As has been previously mentioned, before determining the method to be employed in handling bulk cement, local conditions and facilities should be thoroughly investigated and the nature of the work given due consideration so that that scheme which is most properly adapted to the job can be used.—“New York Real Estate Record.”

PLACE AND VALUE OF THE TRADE PAPER.

“Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

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Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Loft Building, Fifth and Locust streets, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Brick (slow burning), 3 stories, 20x100 feet, slag roof, steam heating, electric lighting, pine floors, fire doors, 1 elevator. Architect will sub-let.

Residence, Cliveden street, northeast of Wisahickon avenue, Germantown. Architect not announced. Owner, W. W. Riday, 1010 Race street, Philadelphia. Brick or stone, 2½ stories. Plans in progress.

Residence, Twelfth street, above Sixty-ninth avenue, Philadelphia. Architect, John H. Rothwell, Geneva avenue and Westford Road, Olney. Owner, Charles Dapp, 6916 York Road, Philadelphia. Brick and stucco, 3 stories, 28x35 feet, asphalt, shingle roof, concrete, oak and pine floors (heating, plumbing and lighting reserved), tile and marble work, hollow tile, metal lath. Revised plans in progress. Architect ready for bids in a few days.

Residence (alt. and add.), 322 South Sixteenth street, Philadelphia. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Dr. Chas. B. Worden, on premises. Brick, third story rear addition, 12x14 feet, slag roof, pine floors, electric lighting, mill work, plastering and plumbing. Architect has received revised bids.

Machine Shop (add.), Midvale, Philadelphia. Architect, private plans. Owners, Midvale Steel Co., Widener Building, Philadelphia. Steel and brick, 2 stories, 112x209 feet, slate roof, concrete and pine floors, steam and hot air heating (lighting and steel work reserved), hollow metal sash and skylights, fire doors, iron stairs, ornamental iron work. Owners taking bids, due as soon as possible. Warren Moore & Co., Colonial Trust Building; John R. Wiggins & Co., Otis Building; Irwin & Leighton, 126 North Twelfth street; F. W. Mark Cont. Co., Finance Building; Roydhouse-Arey Co., 112 North Broad street; Barclay White & Co., 1713 Sansom street; Interstate Eng. and Const. Co., Coleman Building; Metzger & Fisher, Otis Building, Philadelphia; George C. Dietrich, Riverside, N. J., and Levering & Garrigues, 552 West Twenty-third street, New York City, are figuring.

Storehouse (add.), Philadelphia Dept., Peltz street and Schuylkill avenue. Architect, private plans. Owners, U. S. Government, Schuylkill Arsenal, Peltz street and Schuylkill avenue, Philadelphia. Brick and stone (elevator shaft addition), 5 stories, 15x15 feet, cement floors, hollow metal skylights, 2 elevators. Low bidders: Charles Gilpin, Harrison Building, \$14,998; M. W. Anstie, 1218 Filbert street, \$17,900.

Store (int. alt.), Broad and Columbia avenue, \$4,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Talking Machine Co., 143 South Broad street, Philadelphia. Consists of interior alterations, cabinet work, painting, electric lighting, glass. Plans in progress. Architect ready for bids in a week.

Residences (14), Rittenhouse and Price streets, Germantown. Architect, Wm. J. Cowen, 943 East Cheltenham avenue. Owner, John F. Conlin, 5340 Germantown avenue. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heating, electric lighting. Owner taking sub-bids, due August 22nd.

Factory, Greenwich Point, Philadelphia. Architect, private plans. Owners, the Brown Co., Inc., 2063 East Fifth street, Philadelphia. Reinforced concrete and brick, 3 stories, 120x61 feet, Barrett roof, concrete floors, rolled steel sash and skylights, fire escapes, ornamental iron work (heating, lighting and elevator reserved). Owners have received bids.

Warehouse, 117-19 North Tenth street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street. Owners, Snyder & Co., 134 North Tenth street, Philadelphia. Brick, steel and concrete, terra cotta and stone trim, 5 stories and basement, 104x31 feet, slag roof, pine and oak floors, electric lighting, tile work, hollow metal sash and skylights, fire doors, metal bulks, ornamental iron work (heating and elevator reserved). Architects have received bids.

Paving, etc., Francis and Shirley streets and **Baseball Backstop**, Twenty-sixth and Morris streets. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Board of Recreation, Room 587, City Hall. Cement sidewalks, armored concrete curbing and sodding and construction of baseball backstop. Low bidders on paving, Robbins Contr. Co., Lafayette Building, \$6,927; Carter Paving Co., 641 N. Eighteenth street, \$7,186. Low bidders on backstop, Wayne Iron Works, Commercial Trust Building, \$1,450.

Stores and Apartments, southeast corner of Fifty-sixth and Cedar avenue, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, John Baker, on premises. Brick, 2 stories, 22x80 feet, slag roof, steam heating, electric lighting, tile and marble work, metal ceilings and metal bulks. Revised plans completed. Owner is ready for sub-bids.

Paving and Painting, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Public Health and Charities, Wilmer Krusen, Director, Room 584, City Hall, Philadelphia. Paving and repaving of footway alleys (\$7,000), painting exterior of buildings at Philadelphia Hospital, Second and Luzerne streets, Philadelphia. Owners ready for bids, due at noon, August 28th.

Warehouse (add.), Broad and Washington avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 7 stories, 92x113 feet, slag roof, concrete floors, hollow tile, rolled steel sash, safety treads, fire doors, waterproofing, dampproofing (heating, electric work and ele-

vators reserved). Owners ready for bids, due September 4th.

Filter House (alt. and add.), Girard College, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, Corinthian and Girard avenues, Philadelphia. Iron, concrete and copper, 1 story, 10x14 feet, slag roof, waterproofing, ornamental iron work, wire work. H. H. Burrell, 206 South Quince street, is taking sub-bids.

Garage, 6328 Vine street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, F. Di Bernardino, on premises. Brick and stone, 1 story, 16x24 feet, slag roof, cement floors, hot water heating, electric lighting. Plans about completed. Owner will be ready for bids in a few days.

Sales and Service Building, 1821 Chestnut street, Philadelphia. Architect, Edw. B. Delk, 34 South Seventeenth street, Philadelphia. Owner's name withheld. Brick (slow burning), terra cotta front, 2 stories and basement, 20x160 feet, slag roof, cement and wood floors, steam heating, electric lighting, tile and marble work. Plans in progress.

Storage House, Paul street, Frankford, Philadelphia. Architects, Stearns, Woodnutt & Schmohl, Stephen Girard Building, Philadelphia. Owners, Keystone Emory Mills, 4325 Paul street, Frankford. Brick and steel, terra cotta trim, 2 stories, 100x36 feet, slag roof, cement and maple floors, rolled steel sash, hollow metal skylights, fire doors (plumbing, heating, electric work, sprinklers, paving, fencing, wire window guards and elevator reserved). Architects have received revised bids.

Garage and Machine Shop, southwest corner of Woodland avenue and Yewdell street. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Isaac Dozor, 5632 Walnut street, Philadelphia. Brick, 1 and 2 stories, 89x92 feet, slag roof, cement and pine floors, steam heating, hollow metal skylights, 1 elevator, gasoline storage system. Plans in progress.

Store and Apartments (alt. and add.), Broad and Allegheny avenue. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Crumbie Bros., on premises. Brick, steel and terra cotta, 3 stories, 40x65 feet, slag roof, steam heating, electric lighting, tile and marble work, metal lath, waterproofing (painting, glazing, gas and electric fixtures, refrigerators, kitchen cabinets, gas ranges and hot water heater. New plans in progress.

Nurses' Home (add.), Fifteenth street, above Race street. Architect, private plans. Owners, Hahnemann Hospital, on premises. Brick and reinforced concrete, fireproof, 6 stories and basement, 38x21 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, cement and pine floors, metal lath, metal weather strips, damp-

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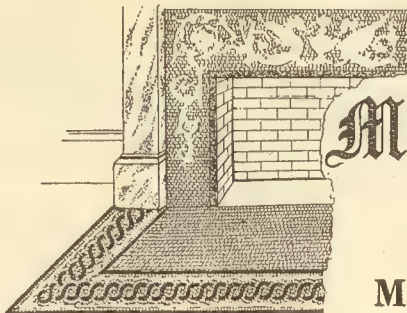
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proofing. Owners taking bids, due August 28th. George W. Carson, Locust and Chew streets, Germantown; J. S. Cornell & Son, Finance Building; F. L. Hoover & Son, 1023 Cherry street; A. R. Raff Const. Co., 1635 Thompson street, and George C. Dougherty, 1725 Ludlow street, are figuring.

Garage (add.), Mt. Airy and Germantown avenues. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, E. P. Rotzell, 7200 Germantown avenue. Brick, 1 story, 50x106 feet, slag roof, cement floors, hot water heating, electric lighting, hollow metal skylights. Architects and owner taking sub-bids, due August 27th.

Sales and Storage Building (alt. and add.), 1911 Chestnut street. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Joseph Habisreiter, 1604 Chestnut street, Philadelphia. Reinforced concrete and brick, 4-story rear addition, 24x30 feet, slag roof (plumbing, heating and electric work reserved), concrete and wood floors, dumb waiters, hollow metal sash and skylights, fire doors, waterproofing. Architect taking revised bids, due August 28th at noon. R. C. Ballinger & Co., 218 North Thirteenth street; H. E. Baton, 1713 Sansom street; Graham-Campion Co.; Wm. Chas. Doll, 201 North Broad street; F. A. Havens & Co., 845 North Nineteenth street; F. E. Wallace, 1220 Chancellor street; John N. Gill & Co., Otis Building, and Robert E. Lamb & Co., 1314 Arch street, are figuring.

Rectory (alt. and add.), Orianna and Brown streets. Architect, Peter F. Getz, 1634 North Sixth street, Philadelphia. Owners, St. Agnes' R. C. Slovak Church, Rev. J. J. Novorolsky, 732 North Fourth street, Philadelphia. Brick and stone, 3 stories, 20x35 feet, and two-story addition, 18x35 feet, slag roof, pine floors, waterproofing, ornamental iron work (heating, plumbing and lighting reserved). Architect taking revised bids, due August 22nd. Melody & Keating, 1322 Race street; Anthony Ziernicki, 1632 Hunting Park avenue; D. W. O'Dea, 5227 North Fifth street; John McShain, 1610 North street, and Fred H. Kaiser, Pottstown, Pa., are figuring.



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PHILADELPHIA, PENNA.

Quarters for Radio Operators, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, F. R. Harris, Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Wood, concrete, 2

stories, 25x54 feet, asbestos shingle roof, hot water heating, electric lighting, waterproofing. Lowest bidders, Metzger & Fisher, Denckla Building, Item No. 1, \$15,947; No. 2, \$100; No. 3, \$40; No. 4, \$245; time, 90 days.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store, Frankford avenue and Rhawn street, Philadelphia, \$13,000. Architect, Alex. M. Adams, 1012 Walnut street, Philadelphia. Owner, Estate of Samuel Cooper, care of architect. Brick, 3 stories, 16x64 feet, slate and slag roof, composition and pine floors. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Store Building and alteration to Buildings (3), 114-120 North Front street, \$40,000. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, George D. Wetherill & Co., on premises. Brick, steel and concrete, 4 stories, 79x43 feet, slag roof, cement, maple and pine floors (steam heating, electric work, plumbing, elevator, sprinklers and mechanical plant reserved by owners), rolled steel sash, hollow metal sash and skylights, fire doors, metal lath, Belgian block paving, metal ceilings. Contract awarded to H. H. Wehmeyer, 1004 West Lehigh avenue, Philadelphia.

Freight House No. 4 (add.), Noble and Newmarket streets, \$50,000. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Reading Terminal, Philadelphia. Brick and steel, 1 story, 83x130 feet, slag roof, pine floors, rolled steel sash. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Storage House, 3045-47 Ludlow street, Philadelphia, \$12,000. Architect, private plans.

Owners, Quaker City Flour Mill Co., Fourth and Chestnut streets. Reinforced concrete, 90 feet high, rolled steel sash, fire doors. Contract awarded to Deverall-Spencer Co., Baltimore, Md.

Garage (alt.), 1220-26 North Twenty-sixth street, Philadelphia. Architect, private plans. Owner, James Finnessey, Twenty-sixth and Parrish streets, Philadelphia. Brick (changing partitions, moving elevator, new roof (heating and lighting reserved), cement floors. Contract awarded to Herman Voight, 1251 North Twenty-eighth street, Philadelphia.

Sales and Service Building (alt.), 672-74 N. Broad street, \$20,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Samuel Gorson, 238 North Broad street, Philadelphia. Brick and terra cotta or composition stone, 3 stories, 32x88 feet, composition roof (elevator and lighting fixtures reserved), steam heating, electric lighting, tile, marble and terrazzo work, hollow metal skylights, fire doors, metal bulks, cement floors, metal lath, roof ventilators, metal window guards, metal ceilings. Contract awarded to Charles H. Frank, 1113 Cherry street, Philadelphia.

Church (alt.), Rector and Cresson streets, Manayunk. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Church of St. John the Baptist, care of Rev. Eugene Murphy, 146 Rector street, Manayunk, Philadelphia. Stone (tile and marble work reserv-

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ed), carpenter work, reinforced concrete and marble steps, iron stairs. Contract awarded to Melody & Kenting, 1522 Race street.

Stable and Riding Academy (alt. and add.), Twenty-first and Ludlow streets, \$30,000. Architect, Wm. C. Pritchett, Jr., 416 Walnut street. Owners, John J. Short & Bro., 131 North Twenty-first street, Philadelphia. Brick and steel, 4 stories, 1 story addition, 180x64 feet, slag roof, pine floors, electric lighting, hollow metal skylights, fire doors (elevator repairs reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Garage, Philadelphia Depot, Peltz street and Schuylkill avenue, Philadelphia, \$10,983. Architect, C. E. Boller, Philadelphia Depot, Philadelphia. Owners, U. S. Government, Schuylkill Arsenal, Peltz street and Schuylkill avenue. Brick, 1 story, 102x52 feet and 17x28 feet, asphalt roof, cement and pine floors (heating, lighting and gasoline storage system reserved), hollow metal skylights, roof ventilators. Contract awarded to Wills-Ludwick Co., 34 South Seventeenth street, Philadelphia.

Residence (alt.), 1301-03 Northeast Boulevard, Philadelphia, \$19,000. Architect, private plans. Owners, Rembart Building and Loan Association, 1205 Arch street, Philadelphia. Brick, 3 stories, general interior alterations, hardwood floors, electric lighting. Contract awarded to John V. Russell, 6038 Walton avenue, Philadelphia.

Y. M. C. A., Seventh and Edgemont avenue, Chester, Pa. Architect, Adin B. Lacey, 1012 Walnut street, Philadelphia. Owners, Y. M. C. A., Joseph K. McLean, chairman Building Committee, Chester, Pa. Brick and steel, new windows and stage, composition and pine floors, marble work, metal lath, fire escape addition, ornamental iron work (lighting and heating reserved). Owners have received bids.

Manufacturing Building (add.), Third and Palmer streets, Chester, Pa. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, A. H. Wirz, Inc., on premises. Brick (mill construction), 2 stories, 28x45 feet, slag roof (steam heating, electric work, elevator and sprinklers reserved), cement and maple floors, rolled steel sash, hollow metal skylights. Architect and owner taking bids, due in one week. R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia; Hughes-Poulkrod Co., Commonwealth Building, Philadelphia; Nolan Bros. and Wm. Provost, both of Chester, Pa., are figuring.

Garage, Bethlehem and Allentown Boulevard, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, A. Newton Roberts, Bethlehem, Pa. Hollow tile and plaster, 1 story, 28x29 feet, slate roof, hot water heating, electric lighting, cement floors. Owner has received bids.

Harris School (add.), Front and Paxton streets, Harrisburg, \$35,000. Architect, M. N. Baer, 1911 Derry street, Harrisburg, Pa. Owners, School Board, F. E. Downes, Superintendent, 121 Chestnut street, Harrisburg, Pa. Brick, 2 stories, slag roof, pine floors. Plans in progress.

Garage, Front and Mulberry streets, Harrisburg, Pa. Architects, Kelker & Johnson, Calder Building, Harrisburg, Pa. Owners, Harrisburg General Hospital, Mr. Conden, Harrisburg, Pa. Brick, 2 stories, 26x28 feet, slag roof, cement floors, electric lighting, gasoline storage system. Plans about completed. Owners will take bids.

Store and Apartments (alt. and add.), Carlisle, Pa. Architects, Fahnestock & Raudenbaugh, Patriot Building, Harrisburg, Pa. Owner, H. T. Herman, Carlisle, Pa. Brick, 2 stories, 35x16 feet, slag roof, pine floors, hot water heating, electric lighting, tile work. Plans in progress.

Hospital (add.), Front and Harris streets, Harrisburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, Polyclinic Hospital, on premises. Brick, 2 stories, 35x40 feet, composition roof and floors, electric lighting. Plans in progress.

Mausoleum, Easton, Pa., \$40,000. Architect, Edward Leber, York, Pa. Owners, York Mausoleum Co., J. R. Smith, Easton, Pa. Reinforced concrete, granite, marble and bronze, 1 story, 100x32 feet (wing 18x32 feet), tile roof, tile and marble work. Owner taking bids, due as soon as possible. H. S. Lievert, P. O. Box 101, Harrisburg, Pa., is figuring.

Colonial Residence and Garage, Front street, Harrisburg, Pa., \$40,000. Architect, John A. Dempwolf, Cassatt Building, York, Pa. Owner, Walter P. McGuire, Esq., Harrisburg, Pa. Brick and marble, 2½ stories, 47x81 feet, slate roof, hardwood floors, steam or vacuum heating, tile work. Plans in progress.

Store and Apartments, Lewistown, Pa. Architect, John Hamme, City Bank Building, York, Pa. Owner, E. N. Snyder, Lewistown, Pa. Brick, terra cotta and granite, 3 stories, 18x100 feet, slag roof, vapor heating, electric lighting, tile work, hardwood and tile floors, metal bulks. Architect taking bids, due as soon as possible. Steinbach & Son, Lewistown, Pa., are figuring.

Boiler House, Calender Room and Mill, Cheltenham, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owners, Hoffman, De Witt & McDonough Co., Inc., Cheltenham, Pa. Brick, concrete (slow burning), 1 story, 52x55 feet, slag roof, electric lighting (steam heating extension), fire doors, hollow metal skylights, steel stack, cement floors. Architect taking bids, due August 29th. Specht & Sperry, Heck Building; Wm. Linker Co., 831 Cherry street; Wm. R. Dougherty, 1610 Sansom street; Hogg Const. Co., 1634 Sansom street; Lam Building Co., 1001 Wood street; Matthew Schmid, 1308 North Sixth street, and Fred Quate, 1323 Snyder avenue, all of Philadelphia, are figuring.

Office Building (add.), Harrisburg Shops, Harrisburg, Pa. Architects, Maintenance or Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, 2 stories, 15x30 feet, slag roof, pine and composition floors, electric lighting, ornamental iron work. Plans completed. Owners, care of R. V. Massey, General Superintendent Eastern Pennsylvania Division, Harrisburg, Pa., will take bids.

Residence (alt. and add.), Old Lancaster Road, Overbrook, Pa. Architect, George I. Lovatt, 416 Walnut street, Philadelphia. Owner, John J. Gallagher, on premises. Frame and stucco, second story addition, 14x8 feet, tile roof, tile floors, plumbing. Architect has received bids.

Freight Station, Brownsville, Pa. Archi-

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teets, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, the Monongahela Railway Co., Brownsville, Pa. Reinforced concrete, brick and terra cotta, 1 and 2 stories, 240x64 feet and 56x108 feet, asphalt roof, steam heating, electric lighting, marble and terrazzo work, mastic floors, rolled steel and hollow metal sash, fire, kalamein and hollow metal doors, ornamental iron work, hollow tile, metal lath, elevators, waterproofing. Owners have received revised bids.

Club House, Edge Hill, Montgomery County, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Lu Lu Temple Country Club, Fitzwatertown, Montgomery County, Pa. Stone, 2 stories and basement, 185x85 feet, shingle roof, maple and pine and composition floors (lighting, heating and plumbing reserved), tile work, metal lath, metal weatherstrips, waterproofing. Architect has received bids.

Chief Gunners' Quarters, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief of Navy Department, Washington, D. C. Hollow tile, concrete footings, 2 stories, asbestos shingle roof, steam heating, electric lighting, wood floors. Low bidders, C. L. Dooley, Inc., 257 Adelphi street, Brooklyn, N. Y. \$12,738, no time; F. B. Davis, 240 N. Sixteenth street, Philadelphia, Pa., \$14,187, time 150 days; W. H. Fissell & Co., 1328 Broadway, New York City, \$17,300, time 90 days.

Ashland Bank Building, Ashland, Pa. Architect, A. A. Ritcher, 11 North Sixth street, Reading, Pa. Owners, Ashland Bank. Ashland, Pa. Brick, stone trim, 1 story, mezzanine floor and basement, 25x70 feet, composition roof, steam heating, electric lighting, tile and marble work, marble, tile and wood floors, metal lath, bank fixtures. Plans in progress.

Gate House, Chester, Pa. Architect, private plans. Owners, Sun Ship Building Co., Chester, Pa. Frame, 1 story, 73x26 feet, rub-

beroid roof, maple floors, electric lighting. Owners taking bids, due as soon as possible. Barclay White & Co., 1713 Sansom street, are figuring.

Residence (alt. and add.), Chaddsford, Pa. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owner, Charles B. Holladay, Wilmington, Del. Hollow tile and plaster, 2 stories, 84x47 feet, tin roof, hot water heating, electric lighting, hardwood floors. Architect taking sub-bids on all lines.

Residence, Erie, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John J. O'Brien, Erie, Pa. Hollow tile, 2½ stories, 26x42 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Plans about completed. Owner will take bids in about two weeks.

Bungalow, Bethlehem, Pa. Architect, Mr. Green, Bethlehem Trust Building, Bethlehem, Pa. Owner, Charles Hunter, Bethlehem, Pa. Tile and stucco, 2½ stories, slate roof, hardwood floors, electric lighting. Plans in progress.

Factory (alt.), Orange street, Lancaster, Pa. Architect, private plans. Lessee, Alfred Soh-

Bungalow, North Chester Road, Swarthmore, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owner, Taber Ashton, Swarthmore, Pa. Hollow tile and stucco, 2 stories, 28x50 feet, shingle roof, pine floors, hot water heating, electric lighting. Contract awarded to Frank W. Evans, Folsom, Pa.

Home Building, Lansdowne avenue and Garrettford Road, Lansdowne, Pa., \$500,000. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, New St. Vincent Home, care of Most Rev. Archbishop E. F. Prendergast, Eighteenth and Race streets, Philadelphia. Brick, stone, steel and reinforced concrete, hollow tile and terra cotta, 3 stories and basement, 320x235 feet, slate, tile, slag and copper roof, cement, asphalt, composition, maple and pine floors, steam heat, electric light, tile, marble and terrazzo work, rolled steel sash, copper skylights, fire doors, 2 elevators, waterproofing. Contract awarded to Melody & Keating, 1322 Race street, Philadelphia.

Boiler House, Lancaster, Pa. Architect, Melvern R. Evans, Lancaster, Pa. Owners, Lan-

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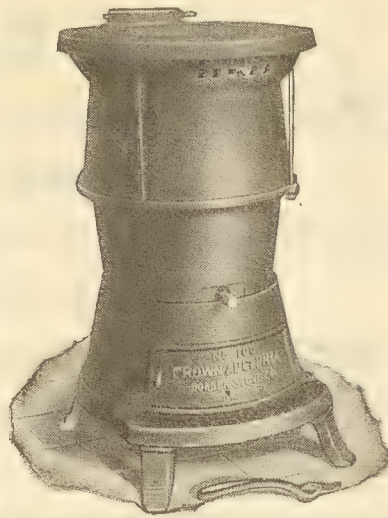
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land, 19 Madison avenue, New York City. Brick, 5 stories, consists of general interior alterations, plumbing, electric lighting, tile work. Lessee will sub-let.

Residence, Lancaster, Pa. Architect, Malvern Evans, 10 East Orange street, Lancaster, Pa. Owner, B. T. Meyers, Lancaster, Pa. Frame, 2½ stories, 20x30 feet, slate roof (hot air heating reserved), electric lighting, pine floors. Plans completed. Owner will sub-let.

School (add.), Sharon Hill, Delaware County, Pa. Architect, Wm. G. Douglass, Jr., 521 Ludlow street, Philadelphia. Owners, Board of Education, Wm. McNair, secretary, Sharon Hill, Pa. Stone and brick, 2 stories, 27x78 feet (heating, plumbing, lighting and ventilating separate bids), slate roof, concrete and maple floors, wire work, metal lath, safety treads, roof ventilators, metal window guards. Revised plans in progress. Will be ready for bids in one week.

Store and Apartments, Prospect Park, Lincoln avenue and Darby and Chester Pikes, Pa. Architect not selected. Owner, Leonard B. Poffeld, 624 South Front street, Philadelphia. Brick, 2 stories, size of lot 200x326 feet. Work contemplated.

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Contracts Awarded

Filter House and Basin, Darby, Pa. Architects, Willard, Case & Co., Whitehall Building, New York City. Owners, Griswold Worsted Co., Darby, Pa. Reinforced concrete and brick, 1 and 2 stories, 46x21 feet and 29x22 feet, slag roof, plank and cement floors (plumbing reserved), safety treads, ornamental iron work, waterproofing, wire work. Contract awarded to Monaghan & Losse, Inc., 3016 Chestnut street, Philadelphia.

Residences (Twin) (7 pairs), Yeadon, Pa. Architect, Jesse T. Hoekstra, 3612 South Eighty-fourth street, Philadelphia. Owner, Theodore Presser, 1710 Chestnut street, Philadelphia. Brick and stone, shingle and stucco, 2 and 2½ stories, 14x36 feet and 14x34 feet, shingle and tile roof (heating, lighting and plumbing reserved), poplar and chestnut floors, tile work. Contract awarded to Wills-Ludwick Co., 34 South Seventeenth street, Philadelphia.

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Residence and Garage, Fort Washington, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Miss Caroline S. Sinkler, 1604 Locust street, Philadelphia. Hollow tile and stucco, 2 stories, 36x31 feet; garage, 1 story, 34x28 feet, shingle roof, hardwood floors. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

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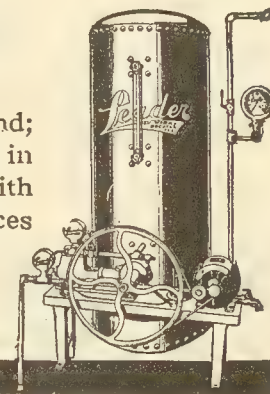
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NEW JERSEY Construction News

Hospital (alt.), South Ohio avenue, Atlantic City, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Atlantic City Hospital, South Ohio avenue, Atlantic City, N. J. Consists of interior alterations to operating rooms and elevator repairs. Plans in progress.

Residence, Moorestown, N. J. Architect, J. Fletcher Street, 129 South Fifth street, Philadelphia. Owner, Miss Martha Hollingshead, Moorestown, N. J. Frame, 2½ stories, 25x40 feet, shingle roof, electric lighting, warm air heating, yellow pine floors. Owner taking bids. Stewart L. Maines, Moorestown, N. J., is figuring.

Bank Building, corner Broadway and Carman streets, Camden, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Merchants' Trust Co., on premises. Marble (fireproof), 1 story and basement and mezzanine, 40x90, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, marble and cement floors, metal lath, roof ventilators, metal window guards, waterproofing, ornamental iron work. Plans about completed. Architect ready for bids in ten days.

Factory, First and Passaic streets, Passaic, N. J. Architects, Lockwood, Greene & Co., 101 Park avenue, New York City. Owners, the New York Belting and Packing Co., 91 Chambers street, New York City. Reinforced concrete and brick, 5 stories and basement, 87x250 feet, Barrett roof, cement and maple floors, rolled steel sash, hollow metal sash and skylights, fire doors, hollow tile, metal lath,

safety treads, waterproofing, wire work, ornamental iron work. Architects have received bids.

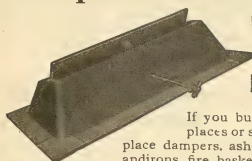
Warehouse and Blowhouse, Camden, N. J. Architect, Frank Sutton, 80 Broadway, New York City. Owner, Wilkes Martin Wilkes, 135 William street, New York City. Brick and steel, 1 stories, 91x77 feet and 1 story, 31x100 feet, maple floors, rolled steel sash and skylights, maple floors, ornamental iron work. Architect has received bids.

Magaziner Storehouses (2), Lake Denmark, N. J.; (1), Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Terra cotta block, stucco and steel, 2 stories, 150x50 feet, asbestos shingle roof, hot water heating, electric lighting, tile work, rolled steel sash, fire doors, iron stairs, concrete and pine floors, elevators, dampproofing. Owners taking bids, due August 17th. H. E. Batton, 1713 Sansom street; Wm. R. Dougherty, 1610 Sansom st.; The Boyle Robertson Const. Co., Washington, D. C.; W. A. Mill, 729 Fifteenth street, N. W., Washington, D. C.; J. Henry Miller, Eutaw and Franklin streets, Baltimore, Md.; Columbus Circle Const. Co., 51 E. Forty-second street, and Norman Kerr Co., 1123 Broadway, both of New York City; F. B. Davis, 240 N. Sixteenth street; McCloskey & Bahls, 1620 Thompson street, and Wm. Linker & Son, 831 Cherry street, are figuring.

Home (add.), Haddonfield, N. J. Architect, Frank V. Nickels, Real Estate Trust Building, Philadelphia. Associated architect, How-

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ard Hall, 819 Cooper street, Camden, N. J. Owners, Shepherd's Home, Haddonfield, N. J. Frame, 2 stories, 38x45 feet, slag and tin roof, steam heating, electric lighting, pine floors. Architects have received bids.

Garage, Broad street, Glassboro, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, John Barrett, Broad street, Glassboro, N. J. Stucco on cement block, 1 story, 60x120 feet, slag roof, steam heating, electric lighting, hollow metal skylights, cement floors (gasoline storage system reserved). Plans completed. Architect will be ready for bids in a week.

Bungalow, Browns Mills in the Pines, N. J. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owners, Rhodenberg Co., Inc., 110 West Fortieth street, New York City. Frame, 1½ stories, 24x30 feet, shingle roof, electric lighting, plumbing, tile work, yellow pine floors. Plans about completed. Owners will be ready for sub-bids in one week.

Residence, Edgewater Park, N. J. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner's name withheld. 2½ stories. Preliminary plans in progress. Details not decided.

Residence and Farmer's House (alt. and add.), Somerville, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Charles A. Woorall, 725 Broadway, New York City. Frame, 2½ stories, kitchen additions, shingle roof, concrete and pine floors (heating extension), electric lighting, plumbing. Architect taking bids, due in two weeks. P. Norgard, 228 Ninety-fourth street, Brooklyn, N. Y.; Clarence Beers, Neshaie, N. J.; Harry K. Busby, and Hall Bros., both of Somerville, N. J., are figuring.

Church and Sunday School, Perth Amboy, N. J. Architect, George E. Savage, Witherpoon Building, Philadelphia. Associated architects, N. J. Pierson & Son, Raritan Building, Perth Amboy. Owners, First Baptist Church, Perth Amboy, N. J. Brick, 1 story and balcony and basement, 68x90 feet. New plans in progress.

Bungalow, Nottingham Way, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owner, Arthur H. Smith, Trenton, N. J. Hollow tile and stucco, 1½ stories, 37x36 feet, shingle roof, pine floors (hot water heating, electric lighting reserved). Architects taking bids, due as soon as possible. P. Cella and

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Chas. J. Smith, both of Trenton, N. J., are figuring.

Stable, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, R. C. Kolb, Trenton, N. J. Brick, 1 story, 30x70 feet, slag roof (hot water heating reserved), electric lighting, cement floors. Plans in progress.

School, Titusville, Mercer County, N. J., \$20,000. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board, Hopewell Township, Mercer County, N. J. Brick, 2 stories, 51x66 feet, slate roof (steam heating, electric lighting and plumbing reserved), pine floors. Owners taking bids. James H. Morris, Broad Street Bank Building, and Mr. Scott, 114 North Montgomery street, Trenton, N. J., are figuring.

Carpenter and Pattern Shop, New York avenue, Trenton, N. J. Architect, R. A. Schumann, 932 Lambertson street, Trenton, N. J. Owners, Trenton Malleable Iron Co., New York avenue, Trenton, N. J. Brick, 2 stories, 28x128 feet, slag roof (heating and elevator reserved), electric lighting, rolled steel sash, yellow pine floors. Architect taking bids, due August 22nd. Burton & Burton, I. Harper Clayton, S. W. Mather & Son, Wm. Hix, Hugh Diekneit, and Chas. Y. Barlow, Trenton, N. J., are figuring.

Church and Club House, Wrightstown, N. J. Architect, Wm. C. Pritchett, 416 Walnut street, Philadelphia. Owners, P. E. Church of Wrightstown, care of Rev. Karl Morgan Block, rector, Wrightstown, N. J. Frame, 1 story, 60x150 feet, and 2 stories, 40x120 feet, ready roofing, electric lighting (stove) heating. Plans in progress. Architect will be ready for bids in ten days.

Garage, Front and York streets, Camden, N. J., \$4,500. Architects, Moffett & Stewart, Inc., 30 West Third street, Camden, N. J. Owner, Thomas E. French, care of architect. Brick and tile, 1 story, 20x100 feet, slag roof, cement floors, electric lighting, rolled steel skylights, hollow tile, roof ventilators (gasoline storage system reserved). Plans about completed. Will be ready for bids in one week.

Stores and Apartments, Penns Grove, N. J., \$7,500. Architects, Moffett & Stewart, Inc., 30 West Third street, Camden, N. J. Owner, Matthew Mitchell, Penns Grove, N. J. Brick and frame, 3 stories, 36x30 feet, slag roof, North Carolina pine floors, combination lighting, metal lath, roof ventilators, fire escapes. Plans in progress.

Stores and Apartments, Stone Harbor, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Brick, 2 stories, 64x40 feet, shingle roof, pine floors, electric lighting, flush bulks. Plans in progress. Owners will take sub-bids.

Garage, Camden, N. J., \$8,000. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner's name withheld. Brick, 1 story, 100x50 feet, slag roof, heating not de-

cided, electric lighting, cement floors, gasoline storage system. Plans in progress.

Bungalow, Stone Harbor, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owners, South Jersey Realty Co., Third and Walnut streets, Philadelphia. Frame, 1½ stories, 36x32 feet, shingle roof, pine floors. Plans in progress. Owners will take sub-bids.

Garage, Camden, N. J., \$20,000. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner's name withheld. Brick, 2 stories, 53x141 feet, slag roof, cement floors, electric lighting, heating not decided, gasoline storage system. Plans in progress.

Building (alt. and add.), 323-25 Federal street, Camden, \$10,000. Architects, Moffett & Stewart, Inc., 30 West Third street, Camden, N. J. Owners, Camden Commercial College, Inc., care of architects. Brick and stone, 3 stories, 40x65 feet, slag roof (steam heating, electric lighting and plumbing reserved), kalamine doors, composition and wood floors, hollow tile, metal lath, safety treads, roof ventilators. Plans in progress. Will be ready for bids in about ten days.

Garage and Machine Shop, Camden, N. J. Architect, Wm. H. Day, Building Inspector, City Hall, Camden, N. J. Owners, City of Camden, Public Property Department, Camden, N. J. Brick, 1 story, 37x112 feet, asbestos roof, cement floors, hot water heating, electric lighting. Owners taking bids, due August 23rd. George Bachmann, 19 North Thirtieth street; F. E. Turner Const. Co., 823 Broadway, and Wm. Wrixford, 525 Market street, all of Camden, N. J., are figuring.

School, Hamilton Township, Mercer County, N. J., \$40,000. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board, Hamilton Township, Mercer County, N. J. Brick, 2 stories (8 rooms), slag roof (heating, plumbing and electric work reserved), tile work, rolled steel sash, iron stairs, maple floors, metal ceilings. Owners taking new bids, due August 27th. Andrew Trier, Joseph E. Smith, Samuel Wiley, Harry Hilton, Chas. Randall, Burton & Barton, Chas. Ivins, Chas. Smith, Fred Parker, I. Harper Clayton, and James H. Morris, all of Trenton, N. J., are figuring.

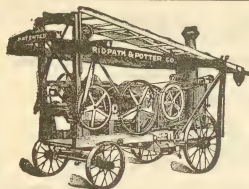
New Jersey
Contracts Awarded

Store (alt. and add.), 2025 Atlantic avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Lorenzo Bye, Atlantic City, N. J. Brick, 2 stories, 30 feet front, kaloroid roof, pine and hardwood floors, combination lighting, marble work, metal bulks, ornamental iron work. Contract awarded to Samuel A. Livincoett, Atlantic City, N. J.

Store (alt. and add.), South Broad street, Trenton, N. J. Architects, Kleeman & Fowler,

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.

DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.



We Drill Wells and Get Water Test Borings and Soundings

LET US SUBMIT PRICES

RIDPATH & POTTER CO

587 Bourse Building
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INCLOSED PORCHES

For Winter and Summer

Specially designed to conform with the architecture of the residence. Special quotations on heating and lighting Inclosed Porches.

Diamond 900 Bell or Postal to

SAMUEL B. MAC DOWELL & SON

1927 W. Montgomery Avenue, Philadelphia, Pa.

Trenton, N. J. Owners, Philadelphia Bargain Store, Henry Wirschafter, on premises. Brick, 3 stories, 35x70 feet, tin roof (steam

heating, electric work and plumbing reserved), pine floors. Contract awarded to William R. Ivins, Trenton, N. J.

Miscellaneous Construction News

School, Keyser, W. Va. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, University of West Virginia (Keyser Branch), care of State Board of Control, E. B. Stephenson, President Board of Control, Charlestown, W. Va. Brick, stone and terra cotta, 3 stories and basement, 75x160 feet. Plans in progress.

Schools (2), Riverdale and Mullikin, Md., \$30,000. Architect, Bart Tourison, Land Title Building, Philadelphia. Owners, School Board of Upper Marlboro Township, E. S. Barroughs, President, Court House, Upper Marlboro, Md. Brick, 2 stories, 118x33 feet, asphalt shingle roof, steam heating, electric lighting, maple and cement floors, rolled steel sash, metal ceilings. Owners taking bids, due August 25th. Herman Burgess, Hyattsville, Md., is figuring.

Drop Forge Shop, Schenectady, N. Y. Architect, private plans. Owners, General Electric Co., Schenectady, N. Y. Brick and steel, 2 stories, 85x404 feet, asphalt roof, metal lath (lighting, heating and plumbing reserved). Owners have received bids.

Road House, near New York City. Architect, Thomas B. Lippincott, Stephen Girard Building, Philadelphia. Owner's name withheld. Fiske-Loek brick or hollow tile and plaster, 3 stories, 54x63 feet, slate roof, indirect steam heating, electric lighting, composition and maple floors. Plans in progress.

Church, southwest corner of Pennsylvania avenue and Brown street, Wilmington, Del. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owners, Church of the New Jerusalem, on premises.

Stone, 1 story and basement, 79x35 feet and 3x23 feet, slate roof, vapor steam heating, electric lighting, tile and marble work, rolled steel sash, ornamental iron work, cement, pine and terrazzo floors, metal lath, waterproofing. Architect and builder, Alfred Downward, 809 Tatnall street, Wilmington, Del., taking sub-bids, due August 25th.

Residence, Hollyoak, Del. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, George R. Fritz, Fifth street, Wilmington, Del. Hollow tile and plaster, 2 stories, 35x26 feet, shingle roof, pine floors, hot water heating, electric lighting. Owner taking bids, due August 24th.

Barn, near Wilmington, Del., \$10,000. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owner, Josiah Marvel, Wilmington, Del. Stone and frame, 1 story and loft, 40x50 feet, shingle roof, concrete floors, electric lighting. Architects have received sub-bids.

Store House, Hampton Roads, Va. Architect, private plans. Owners, U. S. Government, Bureau of Yard and Docks, F. R. Harris, Chief, Washington, D. C. Reinforced concrete, tile and brick, 5 stories, 118x338 feet, slag roof, pine floors, steam heating, electric lighting, rolled steel sash and skylights, fire doors, kalamein and hollow metal doors, hollow tile, elevators, wire work. Owners taking bids, due August 27th. Cramp & Co., Denckla Building, and F. W. Mark Const. Co., Finance Building, are figuring.

Dormitory Building (Women's), Newark, Del., \$50,000. Architects, Day & Klauder, 823 Chestnut street, Philadelphia. Owners, Dela-

ware College, Newark, Del. Brick and marble, fireproof construction, 2 and 3 stories, 30x130 feet, slate roof, steam heating, electric lighting, tile and marble work, metal lath, dumb waiter. Contract for brick, reinforced concrete work and mill work awarded to James H. Wells, Otis Building, Philadelphia.

LOCATION OF ROOMS IN HOUSE IMPORTANT.

The distribution and location of the various rooms in a detached dwelling should receive consideration in their relation to exposure and sunlight, according to a bulletin issued by the Real Estate Board of New York City.

A western or southwestern exposure is not good for a dining room, as the afternoon sun heats it unreasonably in summer, the bulletin says: The outlook should be preferably to the south or east, or to the north as a last resort, but never to the west unless unavoidable.

The living room, which should be bright and cheerful, should face the east. The morning room, drawing room or reception room, usually little used, can face to the north or west.

The library must be dry and may face the east. The morning room should face east or southeast. Kitchens require cool locations where possible and the northerly exposure is therefore best.

Bedrooms should have the utmost possible amount of sunlight, as it is materially conducive to health, and in building the positions of the beds should be indicated on the plans. You should not have them in a direct draught between doors or windows, or windows and fireplaces, nor should the eyes of the sleeper face the light on awakening; neither should the side of the bed be placed against the wall. Every bed room should have an open fireplace or a ventilating flue.

Bath rooms and plumbing on different floors should be so placed over one another as to give direct simple drainage. Ceilings should be from ten to eleven feet from the floor in the clear and the windows are often best designed when grouped, as inside wall space is essential.

Windows that are too large and too many make the house hot in summer and cold in winter, but this may be remedied in part by using plate glass.

There never was, never will be, a better medium for the man who has something to sell to a given class of buyers than the trade paper whose circulation is limited to that class. Newspapers with their swollen circulations strike at best but a chance target here and there. The trade paper carries your rifle fire to targets exclusively. You can't miss,—if your ammunition's right.

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

RUSHING CANTONMENT WORK.

To facilitate the movement and prompt delivery of materials for the construction of the Army cantonments, the Railroads' War Board has assigned C. E. Denney, assistant to the president of the Nickel Plate Railroad, to the Quartermaster's Department in Washington. During the period of construction Mr. Denney will make headquarters in the office of Colonel Littell, where he will keep in touch with all phases of the construction work and furnish advance information to the Commission on Car Service of the Railroads' War Board concerning the Government's orders and the number of cars required to fill them.

There are sixteen army cantonments and sixteen guard camps. All the material for the cantonments will take about 64,000 freight cars. The camps will require about 40,000 carloads, all of which must be moved promptly and without delaying in any way the usual traffic of the railroads.

As a safeguard against delay in deliveries of cars an experienced railroad man has been assigned as a general agent at each cantonment to work in co-operation with the construction quartermaster there. These agents will make daily reports on the number of carloads of materials received, the number of cars unloaded, and the number left on hand for unloading.

What this team work is accomplishing is already apparent. Within thirty days from the date that the Government placed its first orders for cantonment materials the railroads had delivered more than 12,000 carloads of lumber and other building supplies to the sixteen National Army cantonments that are to house the first division of men called to the colors by the draft.

Additional trains, loaded to capacity with lumber, brick, piping, wire, poles, water mains, and all the other materials needed to construct cities capable of accommodating 40,000 inhabitants are arriving daily.

An indication of the speed with which materials are being moved is contained in a report from the cantonment at Louisville, Ky. Administration buildings there were built from lumber cut in a Mississippi pine forest the week before. The trees were felled on Saturday, kindred on Sunday, loaded on freight cars Monday, and delivered at the Louisville site on Wednesday morning. An army of energetic carpenters completed the transformation from forest to Government building just one week from the day the trees had been felled.

To connect the cantonments with the nearest railroad line, and to supply facilities for the local movement of materials during the construction work, many miles of extra trackage have been laid at each site at the expense of the railroads.

The prosperous, the great, the wise,
You may have noticed, advertise!

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers "stick" year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scripper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 5636 Chestnut street, \$600. E. Schuster (O), 5561 Chestnut street. J. Schulman (C), 1111 Bainbridge street. Brick, 1 story, 16x26 feet, slag roof.

Garage, 6808 Lincoln Drive, \$1,670. E. Robert Co. (O), on premises. Samuel B. MacDowell & Son (C), 1927 West Montgomery avenue. Stone, 1 story, 18x24 feet, cement floor, hot water heating.

Construction Building, Bustleton Pike and Robbins street, \$800. R. J. & A. Peoples (O and C), Twenty-fifth and Callowhill streets. Frame, 65x45 feet, 1 story.

Garage, 240 East Allegheny avenue, \$500. J. Hurd (O), on premises. C. Bonner (C), 2838 North Front street. Brick, 1 story, 15x20 feet, slag roof.

Garage, Spencer and Norwood streets, \$300. Lizzie Depermentier (O), on premises. A. M. Lance (C), Haines street, west of Lincoln Pike. Brick, 1 story, 10x16 feet, slag roof.

Garage, 133 West Susquehanna avenue, \$550. Dr. E. H. Mentzer (O), on premises. T. S. Johnson Son Co. (C), 622 Cherry street. Iron on iron, 1 story, 17x20 feet.

Shop, 3361 Edgemont street, \$300. P. Sullivan (O and C), 3367 Edgemont street. Brick, 1 story, 16x25 feet, slag roof.

Dwelling, Bermuda, west side of Duncan street, \$2,200. T. Kaminski (O), on premises. Thomas Jasinski (C), 4530 Milnor st. Stone and brick, 2 stories, 14x50 feet, slag roof.

Garage, Thirteenth and Rush streets, \$2,250.

Charles Thompson (O), Frank R. Stahl (C), 2713 Park avenue. Brick, 1 story, 28x45 feet, slag roof.

Factory, 144-64 East Allen street, \$100,000. The Gorgas Pierie Co. (O), 126 East Allen street. Turner Concrete Co. (C). Reinforced concrete, 5 stories, 156x75 feet, slag roof.

Dwellings (6), Gravers Lane and Anderson street, \$28,800. John Craig (O and C), 8521 Germantown avenue. Brick and stone, 2 stories, 16x23 feet, slate roof, hot water heating.

Garage, rear of 203 Cliveden avenue, \$500. William E. Wetherstein (O and C), 124 East Upsal street. Stone, 1 story, 33x32 feet, gravel roofing.

Garage, 5116 Ridge avenue, \$1,975. E. Wilby (O), 5118 Ridge avenue. E. R. Clark Co. (C), 536 East Walnut Lane. Brick, 1 story, 40x35 feet, slag roof.

Garage, Eighth street, north of Cayuga, \$500. H. H. Kerr (O), 4412 North Eighth street. E. B. Miller (C), 4313 North Eighth street. Brick, 1 story, 16x20 feet, slag roof.

Garage, Forty-ninth and Race streets, \$450. L. J. Matthais (O and C), 135 North Forty-ninth street. Brick, 1 story, 23x16 feet, slag roof.

Open Air School, Gowen avenue, Ardleigh, \$2,000. Mrs. E. S. Mills (O), 302 Gowen avenue, Mt. Airy. James M. Conlison (C), Eberheim Terrace, Mt. Airy. Alterations.

Tenement House, Chestnut and Redfield streets, \$40,000. Chas. A. Mory (O), 1211 Arch street. Chris. E. White Co. (C), 511 N. Sixty-third street. Reinforced concrete, 4 stories, 36x83 feet, slag roof, steam heating.

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Alterations and Additions

Dwelling, 6452 Haverford street, \$700. John Rice (O), on premises. Overbrook Repair Co. (C), 821 North Sixty-sixth street. Brick, 1 story, 15x11 feet, slag roof.

Restaurant, 1315 Cuthbert street, \$550. Philadelphia Trust Co. (O), 415 Chestnut street. W. L. Burton (C), 2108 Sedgley avenue. New roof, fire repairs.

Open Shed, Thirty-first and Market streets, \$3,000. Quaker City Milling Co. (O), Thirtieth and Market streets. A. Raymond Raff Co. (C), 1633 Thompson street. Steel and asbestos corrugated roofing.

Store and Dwelling, Franklin and Green streets, \$400. H. Nesper (O), Tenth and Fairmount avenue. N. Litman (C), 2030 South Fifth street. Alterations.

Store, 1712-14 North Broad street, 1417-19 Columbia avenue, \$4,000. Martlom Bros. & Fleisher (O), Finance Building. Smith-Hardican Co. (C), 1606 Cherry street. New flush bulk and steel work.

Office Building Howard and Courtland sts., \$900. T. Holt (O and C), 2063 East Arizona street. Brick, 20x32 feet, 1 story, slag roof.

Factory, Third and Cumberland streets, \$4,500. Wm. M. Murhy (O), Third and Cumberland streets. Hary Gill (C), 2515 Germantown avenue. Fire Repairs.

Store, 224 North Front street, \$1,450. J. Grossman (O), Commonwealth Building. M. Yellin (C), 712 North Franklin street. Brick, 1 story, 3x14 feet, new flush bulk.

Store, 683 North Broad street, \$600. H. H. Ruxbaun (O), Twelfth and Callowhill streets. Lam Building Co. (C), 1001 Wood street. Cut two openings in walls.

Store and Dwelling, 3257 North Sixth street, \$485. George Rusen (O), Mervine and Venango streets. Barud & Son (C), 1027 North Tioga street. New brick front.

Store, 5942 Market street, \$1,900. L. Singer (O), 126 South Fifty-eighth street. J. H. Hart (C), 5919 Spruce street. Brick, 1 story, 18x16 feet and 3x16 feet, slag roof.

Church, 1525-37 Race street, \$500. Second U. P. Church (O), on premises. George Crowl (C), 5510 Wyalusing avenue. Brick, 1 story, 13x18 feet.

Tank, Fourth and Washington avenue, \$4,500. Southwark Foundry and Machine Co. (O), on premises. Wendnagh & Co. (C), Chicago, Ill. A 50,000 gallon tank, concrete foundation.

Store and Dwelling, 25 North Jniper street, \$700. Mrs. L. Keer (O). Smith-Hardican Co. (C), 1606 Cherry street. Brick, 1 story, 10x12 feet.

Store and Dwelling, 5721 Germantown avenue, \$500. Max Taub (O). George C. Fossel (C), 5606 Utah street. Alterations to front.

Concrete Glau, Martin street, east of Ridge avenue, \$400. G. Koethe (O and C), on premises. Size, 27x100 feet.

Malt Extract Room, Twenty-fourth and Ingersoll streets, \$900. Freihofer Baking Co. (O), Twentieth and Indiana avenue. Philip Haibach Const Co. (C), 1261 North Twenty-sixth street. Interior alterations.

Store and Dwelling, 1501 West Susquehanna avenue, \$1,050. Mr. Love (O). A. Krouse (C), 950 Jackson street. Alterations.

Store and Dwelling, 4505 Baltimore avenue, \$1,500. Annie Brook (O), 4505 Springfield avenue. N. Litman (C), 2030 South Fifth

street. Brick, second and third story addition, 10x22 feet, slag roof.

Store, 17 South Thirteenth street, \$500. John Sharp Estate (O), Fourth and Chestnut streets. A. H. Williams & Sons (C), 419 Locust street. Alterations to bulk windows.

Store, 1533 Cherry street, \$1,200. B. Alexander (O), 1326 Chestnut street. Frank Lucci (C), 1603 Ellsworth street. Brick, 1 story, 11x38 feet, slag roof.

Storage Building, 3045-47 West Ludlow street, \$12,00. Quaker City Flour Mill Co. (O), 600 Central Trust Co., Fourth and Chestnut streets. Deverell Spencer Co. (C), Baltimore, Md. Reinforced concrete building, fire doors, steel sash.

Stable, 1030-32 Fairmount avenue, \$500. National Metal Edge Box Co. (O and C), 1229 Callowhill street. New concrete floor.

Store and Dwelling, 4050 West Girard avenue, \$800. F. Green (O), on premises. J. Garehon (C), 4116 Girard avenue. New flush bulk.

Almshouse, Rittenhouse and Pulaski avenue, \$900. Conty of Philadelphia (O), Philadelphia. Brownworth & Co. (C), 1611 Sansom street. Steel frame elevator enclosure.

Dwelling, 3611 Walnut street, \$1,000. S. Bottoms (O), 3601 Walnut street. Abel Bottoms & Sons Co. (C), 3601 Walnut street. Alterations to interior.

Store, 333 West Girard avenue, \$300. Joseph Wallum (O), on premises. F. A. Stoll (C), 1432 Germantown avenue. New flush bulk.

Factory, Sixth and Columbia avenue, \$1,000. H. H. Ship Manufacturing Co. (O), on premises. Barclay White Co. (C), 1713 Sansom street. Alterations.

Boiler House, Second and Erie avenue, \$4,000. Thomas Potter Sons Co. (O), on premises. Harry Brocklehurst (C), 512 Norris street. Brick, 1 story, engine house, 18x3 feet; brick, 1 story, boiler house, 66x27 feet, slag roof.

Dwelling, 1159 South Eleventh street, \$1,000. Dom Lebirino (O), on premises. Mike D. Amice (C), 624 Sears street. Brick, 2 stories, 12x19 feet, slag roof.

Store and Stock, 421 North Simpson street, \$300. P. Gilberti (O and C), 306 North Sixty-fifth street. Stone, 1 story, 50x16 feet, slag roof.

Boiler and Engine Room, 1436-44 North Sixth street, \$3,000. H. H. Collins (O). 226 Columbia avenue. John Codori (C), 1235 Arch street. Fire repairs, new wall, new floors and roof only, smoke stack.

Bakery, 1359 Germantown avenue, \$300. Edw. Bakst (O). A. Rubin (C), 1127 Thompson street. Brick, second story, 15x15 feet, tin roof.

Store and Dwelling, 858 Madison street, \$500. A. H. Merhir (O). Land Title Building. W. Levis (C), 2951 Kensington avenue. Fire repairs.

Dwelling, 1801 North Park avenue, \$600. W. S. Kirk (O), on premises. Harry Blachau (C), 2448 North Fifteenth street. Alterations.

Dwelling, 215 South Seventeenth street, \$900. Mrs. Mitchell (O). 1730 Spruce street. Melody & Keating (C), 1322 Race street. Alterations and plastering, metal lath.

Store and Dwelling, 2301 East Clearfield street, \$550. J. Biben (O), 2260 East Clear-

field street. Harry Bobb (C), 3038 Agate street. Brick, 1 story, 10x15 feet, tin roof.

Dwelling, 2128 Spruce street, \$5,000. Wm. H. Greene (O), 2130 Spruce street. H. W. Castor (C), 1104 Stephen Girard Building. Interior alterations.

Almshouse, Rittenhouse and Pulaski avenue, \$3,000. Germantown Poor Board (O). Stokes Bros. (C), 6723 Musgrave street. Two new porches, 20x65 feet each. Stone piers, slag roof.

Dwelling, 2219 Hunting Park avenue, \$2,500. S. P. Stover (O), 1927 North Twelfth street. A. W. Spencer (C), 5449 North Twelfth street. Interior alterations.

Dwelling, 6447 Overbrook avenue, \$2,000. C. E. Hallahan (O), on premises. M. W. Young (C), Overbrook, Pa. Brick, second story addition, 17x9 feet, shingle roof.

Dwelling, 6342 Drexel avenue, \$800. F. L. Harding (O), on remises. M. W. Young (C), Overbrook. Brick, 1 story, 13x11 feet, slag roof.

Warehouse, 148 North Fifth street, \$2,500. J. Shapiro (O and C), 152 North Fifth street. New wall and alterations.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 6, 1917.—Sealed proposals will be opened in this office at 3 P. M. August 28, 1917, for the completion of the extension of the United States Post Office and Court House at Harrisburg, Pa. Drawings and specifications may be obtained from the Superintendent of Construction at the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 10, 1917.—Sealed proposals will be opened in this office at 3 P. M., September 24, 1917, for the construction of the United States post office at Cohoes, N. Y. Drawings and specifications may be obtained from the custodian of the site at Cohoes, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 15, 1917.—Sealed proposals will be opened in this office at 3 P. M., September 17, 1917, for the construction complete of two additional dolphins and the furnishing and installing complete of thirty-two spring buffers at the wharf of the Quarantine Station at Tampa Bay, Florida. Drawings and specifications may be obtained from the Custodian at Tampa Bay, Florida, or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co., 136 N. 12th st., Phila.
John B. Rulon, 1355 Colwyn st., Phila.

Artists' and Architects' Supplies.

Chas. H. Robbins, 125 S. 11th st., Phila.
Warren-Knight Co., 136 N. 12th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Prints.

Chas. H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Blue Print Paper.

Chas. H. Robbins, 125 S. 11th st., Phila.

Brick (Face, Etc.).

O. W. Ketcham, Builders' Exchange, Phila.

Brick Renovating.

Adolph Christensen, 1433 Brown st., Phila.

Builders.

Graham-Campion Co., Otis Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros., 2125 Race st., Phila.
Pomeroy Const. Co., 1609 Ranstead st., Phila.

Builders' Supplies.

P. H. Fairlamb Co., 115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.

Cement.

P. H. Fairlamb Co., 115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.
Lehigh Portland Cement Co., Penna. Bldg., Phila.

Columns (Metal).

Pearce Fireproof Co., 1345 Arch st., Phila.

Composition Flooring.

Philadelphia Mineral Flooring Co.,
5632 Summer st., Phila.

Dampproofing.

The Barrett Co., New York City and Phila.

Door Hangers.

Grant Pulley and Hardware Co., 101 Park ave.,
N. Y., and 339 Land Title Bldg., Phila.

Drawing Materials.

Charles H. Robbins, 125 S. 11th st., Phila.
F. Weber & Co., 1125 Chestnut st., Phila.

Electrical Specialties.

Large-Dail Mfg. Co., 606 Cherry st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1620 Chancellor st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts., Phila.

Elevators.

A. B. See Electric Elevator Co.,
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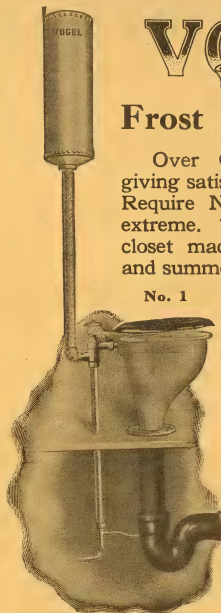
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August 29, 1917

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CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

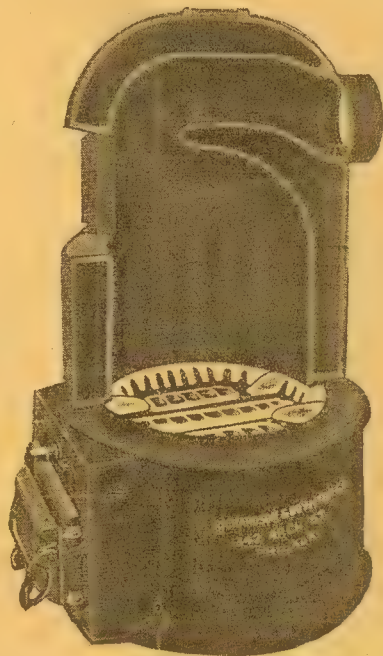
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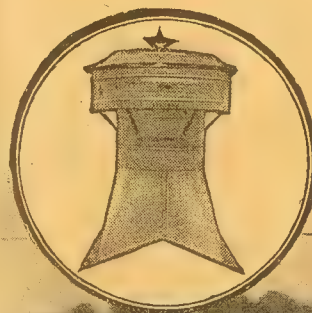
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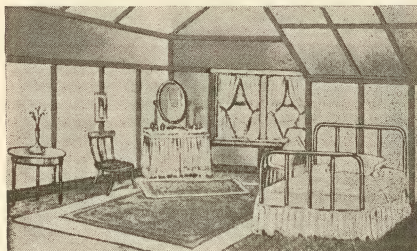
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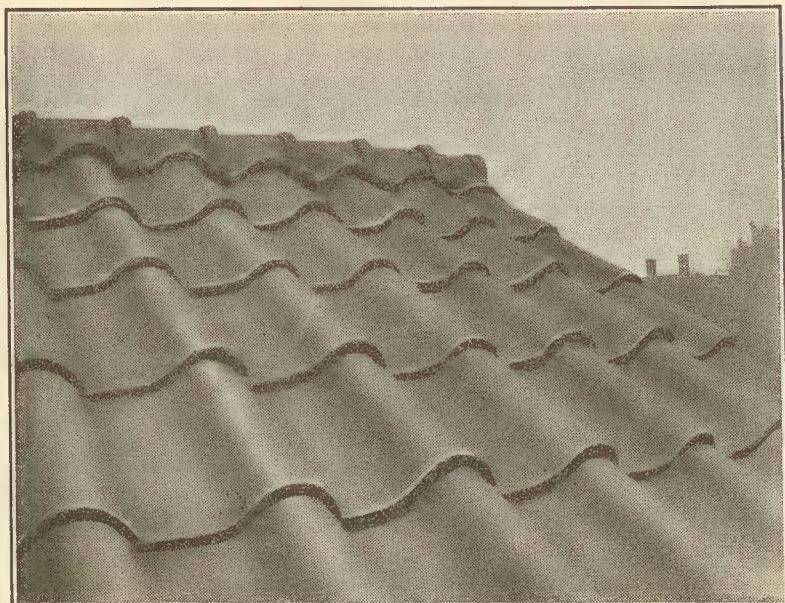
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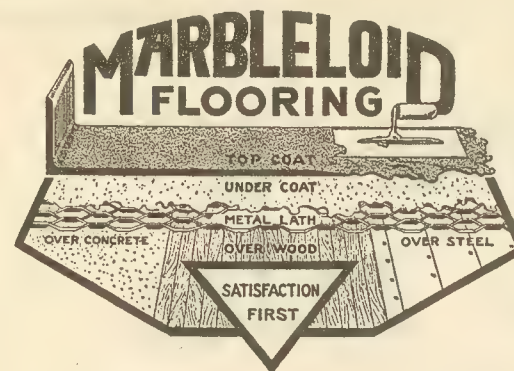
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 35

PHILADELPHIA
August 29, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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As The Editor Sees It



IT is becoming apparent, as the situation created by war conditions tightens perceptibly, that something will have to be done to ease the risk involved in contract bidding. Let me try to make plain at just what I am driving. Under normal conditions the contractor puts in a bid to do a given piece of work in a given period of time. For failure to complete the work within the specified period there is provided a scale of penalties. No allowance is made for fluctuations in the price of materials, the cost of labor, or difficulty in securing deliveries. The bidder assumes all of these risks. Normally he can afford to do this. But the times now facing us are abnormal.

Labor is high and scarce and daily growing higher and scarcer. Common labor is being advertised for in many lines at 50 cents an hour. Hatchet-and-saw men are advertised for at 62½ cents an hour with time-and-half-time for Sundays. If the war continues for any considerable length of time no man can say to what wildly absurd figures the market will soar, whether for skilled or unskilled help.

* * *

MATERIAL costs are jumping, in certain lines, like a Texas jack-rabbit. Materials are one price to-day, another to-morrow and still another the day after. The tendency is up, not down—steadily up. Deliveries are so uncertain that men facing big work are well-nigh distracted to secure

a sufficient quantity of material to keep their forces moving. One wage-scale obtains to-day, another to-morrow. There is no security at any point. All is risk and uncertainty.

* * *

NOW the point I set out to make is this—whether under the conditions there should not be devised a form of contract, the terms of which will permit an equitable degree of latitude to the bidder facing a perilous and altogether unprecedented situation.

Two of the biggest contracting firms in Philadelphia are hesitating as I write, about accepting contracts for millions of dollars' worth of work on Philadelphia's projected new subway because of the failure of the contracts to make allowance for contingent present-day conditions.

Can any reasonable person blame them, in the circumstances?

* * *

WE had the spectacle, only recently of a bidder on wood block paving work being forced to buy block, at a premium, from a competing firm because of the inability of wood-block manufacturers to meet the demand which exists for that material. This same condition is likely, as matters now stand, to assert itself in the case of any one of a dozen materials used in building.

What protection exists for the bidder

caught thus between the upper and the nether mill-stones?

The ideal condition in a situation such as that now facing the country would be the cost-plus-a-fixed-sum or "percentage" system. All of the government work now being awarded is being placed under this principle. How this system works out is explained by Col. I. W. Littel of the Quartermaster's Department of the Army who is in charge of the work of building the new army cantonments:

"The fees vary from 10 per cent. on small contracts of \$100,000 or less to 6 per cent. on contracts of more than \$3,500,000, with a final upset limit of \$250,000. The fees in all cases cover both profit and overhead expense. They were fixed upon by the department acting with the assistance of the Emergency Construction Committee and other civilian advisers.

* * *

IN deciding on the cantonment contracts we have had to consider three main points of practically equal importance," Col. Littell said. "The first has been the absolute necessity of speed; the second, proper construction, including sanitation and communication and transportation facilities; the third, economy. Taking all three into consideration, and also the fact that time will not permit the completion of drawings and specifications which would be necessary in order to ask for competitive bids before the work must be started, the Quar-

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termaster Corps, acting in conjunction with the emergency construction committee, decided to make contracts on the percentage, or cost plus basis, at the same time using all possible safeguards in the shape of guaranties from the contractors as to their capacity and integrity.

"The profit system has been decided on only after weeks of study to find a basis for the fees which would assure the country of the highest grade of work from the contractors and at the same time prevent extravagance through the payment of excessive profits. It is a pleasure to pay tribute to the loyalty and patriotism of the great majority of contractors who have come here to discuss the question with us. With a few exceptions they have acquiesced willingly in our contention that the profits must be kept down to the lowest level consistent with high-grade work. Some firms have offered to do the work on a cost basis, but we have considered this an unwise policy both economically and nationally. The utmost speed and efficiency must be developed in these and future building jobs for the Government, and the acceptance of offers of free service might easily disrupt the high-grade contracting firms best qualified to do the work effectively.

"Steps are being taken by committees also to safeguard the Government from paying unreasonable prices for materials.

* * *

THIS careful graded scheme will, of course, not be satisfactory to some contractors, and we have naturally received many protests against the low fees. It is a satisfaction to know, however, that the great majority of the reputable firms have assented loyally and patriotically to the Government's determination to take radical precautions against excessive profits. The criticisms of the few are perhaps the best evidence we could have of the care the Government is taking in its plans for the cantonments."

If the cost of the work is under \$100,000, a fee of 10 per cent. of such cost.

If the cost of the work is over \$100,000 and under \$125,000, a fee of \$10,000.

If the cost of the work is over \$125,000 and under \$250,000, a fee of 8 per cent. of such cost.

If the cost of the work is over \$250,000 and under \$266,666.67, a fee of \$20,000.

If the cost of the work is over \$266,666.67 and under \$500,000, a fee of 7½ per cent. of such cost.

If the cost of the work is over \$500,000 and under \$535,714.29, a fee of \$37,500.

If the cost of the work is over \$535,714.29 and under \$3,000,000, a fee of 7 per cent. of such cost.

If the cost of the work is over \$3,000,000 and under \$3,500,000, a fee of \$210,000.

If the cost of the work is over \$3,300,000, a fee of 6 per cent. of such cost.

The total fee to the contractor hereunder shall in no event exceed the sum of \$2,500,000, anything in this agreement to the contrary notwithstanding.

* * *

HERE, we have a clear, lucid and easily-grasped statement of the method being followed by the government. This method would, it should be needless to say, not adapt itself to private work generally. But it is conceivable that using this method as the basis or starting-point it ought to be possible to evolve a system whereunder contract work, of a private nature, may be undertaken by the average bidder without unnecessary and prohibitive risk.

* * *

I WAS very much taken with a letter signed "Builder," that appeared in a New York magazine, dealing with the need that exists for the "get-together" sentiment among men associated with present-day building:

"Throughout the building trades there has been considerable discussion in reference to the expected boom in building, but up to the present time there have been no signs that activity along this line is anything more tangible than in the minds of a certain group of individuals or concerns who hope to profit largely by increased business.

"True, there is a demand for many additional buildings. The shortage applies to almost every type of structure. But who, other than investors of independent means, are able to compete profitably with the excessive prices now demanded for building materials and also the other deterrent influences that have held up operations for many months.

"Where is to be obtained the necessary labor to erect these structures when there is the constant cry 'scarcity of labor?' To what extent are the loaning institutions willing to come forward to make it easier for the prospective builder to start his contemplated operation?

"All of these factors, and doubtless additional ones, enter in an important manner into the present building situation and, unless some means of co-operation between the interests involved is speedily perfected, the present unsatisfactory condition in the building industry will continue indefinitely. On the other hand the condition could be measurably improved were the interests represented to get together in a concerted attempt to solve these difficulties.

"But little can be attained by individual effort in these times. The combined efforts of all those interested in furthering the prosperity of the building indus-

try are needed now more than ever before and if such co-operation is possible, I am sure that the end will justify the means."

* * *

THERE are several suggestions in this practical little note of value in the present situation. One that appeals to me particularly is the query the writer puts, touching to what extent the loaning institutions are prepared to come forward to make it easier for the prospective builder to start contemplated operations."

We hear a considerable babble these days of the patriotic enthusiasm of the big financial institutions. Here is an opportunity to make some of that babble practicable and of concrete value. There is no scarcity of money seeking investment. The question seems to be to what extent the investor is prepared to make concessions due the builder in the face of an altogether novel and unforeseen conveyance of circumstances.

The answer to this question would be a practical order of patriotism. It would help the building trades, the investor and the nation. It would go far toward restoring confidence and tend to stabilize the building industry generally.

THE DIFFERENCE BETWEEN AN ENGINE HORSE POWER AND A BOILER HORSE POWER.

There is a decided difference between an ordinary horse power and a boiler horse power. A boiler horse power is more than 13 times as great as an engine horse power. The definition of a boiler horse power is given as "the amount of heat required to evaporate 34.5 pounds of water from and at 212 degrees F. per hour." It has been figured that this amount of heat is equal to 33,479 B. T. U. per hour.

An ordinary engine horse power is equal to 33,000 foot-pounds per minute. Since it takes 778 foot-pounds to make 1 B. T. U., one can easily figure that an ordinary horse power is equal to 2,546 B. T. U. per hour.

We are now ready to find the relation by dividing as follows: 33,479 divided by 2,546 equals 13.149. Roughly speaking, therefore, the engine horse power is only one-thirteenth as great as the boiler horse power.—W. F. Schaphorst.

DO IT NOW.

All we have is just this minute

Do It Now.

Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

You must sometime make a showing.

Do It Now.

EDITORIAL NOTES

According to the impressions of the last few days, there is evidence of a substantially improved feeling throughout the building and allied industries, engendered no doubt by the noticeably bettered building situation. During the latter part of last week and the fore part of the current week there have been indications that denote a start of the long hoped for building movement, and although the proportions of the movement are not yet large, they certainly do allow of the prediction that the autumn months will be a period of exceptional promise.

* * *

George B. North has been appointed general sales manager of the Hazard Manufacturing Company, Wilkes-Barre, Pa. He will have offices at 533 Canal street, New York.

* * *

A course of fifteen lectures on international trade is to be given to the employees of the Vulcan Steel Products Company, 120 Broadway, by Dr. Roy P. MacElwee, head of the department of physics of the College of the City of New York. An additional course dealing with the iron and steel industry in detail is to follow the course given by Dr. MacElwee.

* * *

Association of Iron and Steel Electrical Engineers will hold its eleventh annual convention at the Bellevue-Stratford Hotel, Philadelphia, Pa., September 10-14, inclusive. Wednesday, September 12, will be devoted entirely to a patriotic program, with addresses to be made by army and navy engineers on matters of vital importance to the industries with which the association is identified.

* * *

Builders and investors have been anxiously awaiting for favorable action by the Government in regard to the stabilization of the material situation. There is no doubt but that many important operations are being held in abeyance pending a settlement of the structural steel supply and the regulation of prices both for Governmental and private consumption. Other building commodities are also involved in the investigation, and the condition makes it exceedingly difficult for prospective builders to definitely formulate their plans for future operations.

* * *

De Barros Moreira, formerly general representative in Brazil of the United States Steel Products Company, has been appointed agency division manager of the Vulcan Steel Products Company, of 120 Broadway, New York. Mr. Moreira was a member of the Pan-American Conference in 1910, a delegate to the International Chamber of Commerce and a former president of the American Manufacturers' Export Association.

* * *

A war inventions committee has been form-

ed by the Engineering Council as follows: H. W. Buck, consulting engineering, New York; Prof. A. M. Greene, Jr., Rensselaer Polytechnic Institute, Troy, N. Y., and E. B. Kirby. The committee is to co-operate with the Naval Advisory Board and other departments at Washington, if desired, in the promulgation to engineers of war problems now before the Government.

* * *

National Exposition of Chemical Industries will be held in the Grand Central Palace, New York, in the week beginning September 24. Addresses will be made by Dr. Charles H. Herty, chairman of the Advisory Committee of the Exposition and editor of the "Journal of Industrial and Engineering Chemistry; Professor Julius Stieglitz, president of the American Chemical Society; Dr. Colin G. Fink, president of the American Electro-Chemical Society; Dr. G. W. Thompson, president of the American Institute of Chemical Engineers; W. S. Kies, vice-president of the National City Bank, and others.

* * *

When the Federal authorities announce the decision in regard to the control of output and the regulation of the prices to be charged for the various commodities that are now under investigation there is a prediction that the construction of new buildings will be stimulated to a marked degree. At present there is a hesitancy to commence operations on account of the uncertainty of Governmental action, but once announcement is made, be it favorable or unfavorable, the trade will know exactly how to figure and a revival of structural work is almost sure to immediately follow because of the firm demand for new structures that exists in many parts of the country. The present scarcity of accommodations for living purposes, as well as manufacturing and general business, is not only a local problem, but one that extends to many other large cities and towns throughout the nation. This demand must be catered to and to accomplish this end new structures are a vital economic necessity.

* * *

George Giffault, formerly with Fitz, Dana & Brown, metals, has become associated with the Baltimore Copper Smelting and Rolling Company at New York. The New York office for the sheet copper department has been moved to 128-130 Fourth avenue, near Union Square, and a stock of the products of the American Smelting and Refining Company is carried. W. C. Dickey is New York manager.

* * *

Warren Webster & Co., Camden, N. J., announce the removal of their Atlantic City branch office to 429 Guarantee Trust Building. Sidney B. Strouse is the district manager.

* * *

Westinghouse Electric and Manufacturing

Company, East Pittsburgh, Pa., has received an order for furnishing the electrical equipment for the new Pennsylvania Hotel, now being built at Seventh avenue and Thirty-third street, New York. This hotel, when completed, will be the largest in the world, containing 2,200 rooms, each with a bath. It is being built by the Pennsylvania Railroad and will be operated under the Statler management.

* * *

Walworth Manufacturing Company, Boston, Mass., it is announced, has purchased the Kewanee plant of the National Tube Company at Kewanee, Ill., the sale being effective July 1. The plant covers an area of 58 acres and employs 2,400 men. All of the company's valves, fittings, etc., for the Western trade will be made hereafter at the Kewanee plant, which will be in charge of Charles A. Olson, formerly manager of the Walworth Company's works in Boston. Shirley R. Mitchell, formerly of the company's New York branch, will have charge of the sales of the Kewanee plant products.

* * *

In general, the building material markets have been quiet throughout the past week. Sales of building materials for immediate use in the erection of buildings are comparatively light, but there are inquiries for future deliveries that denote an undercurrent of activity that properly handled and cultivated should, in a short time, develop into a building season of no mean proportions. Several leading architects report that they have important projects on the boards and that their clients are expecting to commence operations as soon as the conditions warrant. The consensus of opinion is that before long the general building situation will have improved to an extent that the start of new projects will become a daily occurrence.

* * *

An emergency call has gone forth from the Chamber of Commerce of the United States to the business men of the country for a great war convention to be held at Atlantic City, September 17-21. It is expected to be the largest gathering of business men ever held and will show to the world that American business recognizes its duty in this crisis and stands solidly behind the Government in war. Incidentally the object of the meeting will be to encourage our Allies and strike fear into the heart of the enemy.

* * *

Conditions in the cement market are most satisfactory, with prices firmly established at the \$2.12 level and a demand for the material that from all quarters indicates an improved building situation. Although the construction of private residences and structures of a speculative character are at a low ebb, the industrial and Government work in progress and in contemplation gives a good tone to the market, and the outlook is for even better conditions by the coming autumn. The shipments of Portland cement compare favorably with those of last year, which was the ban-

ner year for the industry, and there is every prospect that the current twelvemonth will exceed the gross business of one year ago.

* * *

Satisfactory conditions in practically all lines of trade are reported, with prospects of a good season ahead. Government contracts, however, continue to cause some uncertainty, as it is not definitely known to what extent purchasing for war purposes will be carried. For this reason there is a disposition on the part of dealers to keep free of other business that they might be able to meet the demands of the Federal Government.

* * *

Senator McNichol, after a two-hour conference with Mayor Smith, said he would decide whether his contracting company would sign contracts for about \$12,000,000 for subway construction. The hitch in proceeding with subway construction is caused by the fact that

the bids made by Senator McNichol's firm were opened in February, but it was not until last week that the city was able to award the contracts. Since that time prices of material and labor have increased, and the contractors insist the city shall grant them concessions. The Keystone State Construction Company, Senator McNichol's firm, has been awarded contracts for two of the sections of the central delivery subway loop, two Broad street subway contracts and one contract for work upon the Frankford elevated line. Refusal by the contractor to accept the bids may delay subway work for a long time, as legal proceedings might follow such refusal.

* * *

Philadelphia banking interests have acquired control of the Canton Steel Company, of Canton, O. The concern manufactures steel sheets. The entire common and preferred stocks were absorbed by the buyers.

that competition may be conducted as joint constructive effort. They are developing new application for and better ways of using their product and are following their product into its fields of use to insure maximum service at minimum cost. They are in every way trying to prevent and discourage misuse of their material. They maintain a structural materials research laboratory for the express purpose of learning what should be avoided when using cement and of pointing out the best ways of using it economically. The result cannot be other than profitable to manufacturer and buyer.

Modern war creates tremendous activity—it calls into use every material resource of a country—its whole machinery of production and distribution. A little more than two years of world war have brought to this country a volume of business, the like of which we have never before known. Our power to produce has been taxed to the limit. Constructive effort—constructive selling—has often had its mettle tested during that time. Greater opportunities—greater tests are at hand.

The time to build is now, before materials run short, transportation becomes still more congested and labor is drafted into military service.

Some may strain present facilities beyond normal capacity and risk a breakdown. Others may expand temporarily by means of makeshifts. This is waste. Such a mushroom plant must soon be rebuilt. It is never efficient. Facilities should be permanently enlarged and solidly built to stand the strain of huge output. Costs can be reduced through efficiency, and that is possible only in a modern, adequate, constructively planned plant.

After the war, efficiency and low costs will be indispensable. Peace should find this country wonderfully equipped, its industries geared to the most efficient production, its railroads and highways capable of handling promptly and cheaply the greatest caravan of merchandise the world has ever seen. Only thus can American business hold its own in the coming trade struggle between nations.—J. P. Beck, Manager of Portland Cement Association, in "Real Estate Record."

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

CONSTRUCTIVE SALESMANSHIP IN THE CONSTRUCTION FIELD

Not long ago there prevailed the notion that once a sale was consummated, every transaction it involved had been closed. This is quite in contradistinction to the idea of constructive selling which prevails to-day, and nowhere are opportunities for constructive endeavor in selling greater than in our several fields.

The actual consummation of a sale is merely the beginning of a transaction. Real constructive selling looks far beyond the signature on the dotted line. In the construction field constructive selling starts by inducing one to purchase a material. It then follows that material through various courses to its ultimate use in such a way as to make it render a service beyond its actual cost. This done, the material becomes its own salesman, thereafter. Between these two points—the act of inducing one to buy and the following acts of service that enable the buyer to make wise, proper and profitable use of the material bought, lies the whole range of modern constructive salesmanship.

Once the salesman's sole aim was to make a sale. There was no thought in his mind as to whether the material sold would properly fit the use anticipated for it, whether it would render a service that would make its cost forgotten, or whether the need even for the material ever really existed. It would be interesting to know, if possible, the total of the enormous losses which have resulted from that destructive salesmanship which because of ignorance or indifference failed to inquire as to whether a material would fit a need, that salesmanship which neglected to follow the thing sold into the field or through its intended use, thus failing to make certain that both satisfaction and profit accrue to the buyer and seller.

Constructive Selling.

Constructive selling is the key to more business. The salesman who is so short-sighted

as not to see beyond the transaction of the moment is facing the wrong way. Like those lovable old dike building Dutchmen whom Washington Irving tells us about—who, when landing on our shores are said to have begun building dams to hold back the Atlantic ocean—all unconscious of the fact that ample room in two or three millions of square miles was open to them to the westward.

It is not necessary that the constructive salesman appear as nor be thought of as sort of a crusader in a righteous cause, but he should know both his field and his product so thoroughly as to be able to see that what he is selling will be used rightly and so well that waste effort and loss of capital will be stopped.

I might refer briefly to the organization with which I am connected. In our field there is no need to build dikes, as it were, against competition. Through constructive effort our field becomes boundless. At no period in the history of the cement industry have its opportunities been so numerous. Construction which is actually needed is of such colossal volume that it would seem that nothing short of the highest form of constructive selling would ever get the job well under way.

But what is true of the cement industry is also true of other industries identified with building and construction. To-day we are grappling in this country with the problem of waste as we have never grappled with it before—waste in almost countless forms—waste of materials and products—waste of effort, and there is not one of the building and construction interests which has not now before it an almost unlimited field in which to exert those constructive efforts—that constructive salesmanship—which will show us through the profits of conservative how gigantic our waste has heretofore been.

Manufacturers of Portland cement are working on the new well established belief

FACTORS AFFECTING THE COST OF STRUCTURAL STEEL

The factors affecting the cost of producing and the cost of purchasing structural steel work were discussed in two papers presented recently before the Engineers' Society of Western Pennsylvania. Abstracts of the paper read by Mr. George H. Danforth, structural engineer, Jones & Laughlin Company, follow:

"An item of design in which a high cost is frequently incurred to save a small amount of material is in the use of riveted trusses for roofs and similar places, when a simple beam will answer all purposes, and there are a great many cases where roof trusses are used on spans of 30 to 40, or even 45 feet, where a simple beam would answer all the purposes, weigh possibly a trifle more, but cost in dollars and cents considerably less. This feature is, of course, subject to modifications, due to the variation in the price of material and the price of labor. At the present time it would probably be economical in material, but even at the present time the saving, under these conditions, would not be as great as might be imagined, and the greater stability and ease of cleaning and painting that attaches to the use of a simple beam over that of a roof truss, which has a considerable portion of its surface inaccessible, is plainly evident.

"This idea of getting economy by the use of simple sections in place of complex riveted sections is nothing new. In the days when channels were held at prices of 3c. and over, with angles and plates about half this price, it was a common practice to make bridge chords, even of small highway bridges, of four angles, two web plates and a cover plate, in place of two channels, and a cover plate, the conditions in the prevailing prices for material more than offsetting the additional shop work of using the plate and angle section.

"Another item that will occasionally affect costs and also affect delivery is the number of sizes that a designer will put into a structure. For instance, there is not sufficient difference between the dimensions of a 6x4-inch and a 6x3½-inch angle to prevent the use of either size throughout a job, rather than use both sizes. This is also true of 5x3½-inch and 5x3-inch angles, 3½x2½-inch and 3x3-inch angles; also 2½x2½-inch and 2x2½-inch angles. Each size that can be thus eliminated from a job means one less size to be realized before the fabrication of the job can be taken up, and so expedites delivery and reduces the work and troubles in putting through a piece of work.

"In this connection it might be well to mention that even nowadays we occasionally run across work wherein tees have been specified by the designer, in happy ignorance of the fact that there is probably not a more difficult section to get, even under normal mill conditions, than such tees.

"The same is similarly true, although in

a lesser degree, of small beams and channels. Many designers use these sections for lintels, when two or three angles could just as well be used, and which would eliminate any necessity for punching or for separators or separator bolts, and with no appreciable increase in weight.

"Going further into detail, you will find the matter of detail design, which of course involves the question of shop drawings. It seems impossible to some people to make details without getting rivets into pockets, where they are very difficult, if not impossible, to drive! or of building up a section which has to be partially assembled and partially riveted before the balance of the section can be put together and the piece finished. There is also a tendency to use an excessive number of rivets. A few excess shop rivets are not serious and do not appreciably increase costs unless the excess is great.

"The contrary, however, is true in regard to field rivets, as we frequently find field rivets put in with a free hand, utterly regardless of what it will cost the erector to drive them. In one instance which occurs to me the designer insisted upon using 24 rivets to hold up one end of a 24-inch beam, which was not subject to any excessive load, and very carefully arranged the details so that 18 of these 24 rivets would be down in a pocket where it was impossible to properly back up the rivet in driving.

"Another detail item that seems to receive little attention, outside of drawing rooms that are directly in charge of a shop superintendent, are changes in sizes of holes and in sizes of rivets. This is a frequent item of expense and a constant source of trouble, as, unless everyone connected with a job is constantly on guard, the condition will arise where a member that has been built using ¾-inch rivets will connect with a member that has been built using ⅞-inch rivets, and the holes for the field connections, instead of being the same size, will be of different sizes. In other words, of sizes suitable for the use of rivets used in the individual member.

"Column splices constitute another item wherein much money is often uselessly spent. With the ordinary plate and angle columns there is not much need of any splices other than plates on the flanges. An attempt to splice the web also frequently results in bad holes and other difficulties, while a web splice arranged with angles generally serves no useful purpose other than covering up, possibly, a case of a poorly milled end.

"Due attention is rarely given to the economies of duplication. To build one truss is expensive, but to build a large number of duplicate trusses is a relatively cheap operation, and it would frequently be an economy to make a large number of parts of a structure exact duplicates, even though it involved more

material than it would to make each separate and individual truss or part specifically designed for its work."

DON'T BE A BUSINESS SLACKER.

This hysterical stuff about cutting out business is the poorest kind of advice. The yellow newspapers that started the scare should lose all of their advertising. If that would put them out of business, all the better.

Buying should go on as usual.

There is a difference, though, between curtailment of needless expenditures and hysterical economy which bids the people hoard and refrain from buying the things needed to maintain life decently and comfortably. It is folly at the present time to hoard money regardless of consequences, and it is equally foolish to buy great stores of goods against a remote and theoretical need. The people of this country have little cause to worry about the future. Our natural resources are great. The farms will produce enough to feed the nation. The manufacturing plants will continue to operate at their present capacity and there will be work for all who are able and willing to labor.

The signs point to continued industrial, commercial and farming activity. Seven billion dollars have been voted by Congress for war purposes and the bulk of this sum will be spent right here in the United States. In the distribution, every wage earner is certain to get a share, and it is probable that wages will go higher than ever to meet their increasing prices. There is no possibility of America breaking down industrially, financially or commercially, and a period of business activity is assured.

There is no reason why business should not go on as usual. There is no cause to get excited over the future, even though the nation is at war. Every man and woman should remain calm and go about the daily tasks as usual. Economy is a virtue to be practiced at all times, but it must not be carried to the point where it becomes a vice. The wise resident of this country will buy what he needs for his comfort and happiness and save a little for the future as he has been accustomed to do. This is the only safe course and hysterical predictions should not overturn sober, common sense.—"Ohio Journal of Commerce" (Columbus).

Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

This is the age in which one man DOES ONE THING. You can run your BUSINESS. Find a man who can RUN YOUR ADVERTISING.

No one suffers from a mean disposition like the fellow who has one.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Business Building, Walnut street (central), Philadelphia. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owner's name withheld. Brown stone, 3 stories, new front and general alterations. Plans about completed. Architect ready for bids in a few days.

Office Building, 1710-12 Market street, Philadelphia. Architect, private plans. Owners, Mellon Estate, 1635 Ransstead street, Philadelphia. Concrete and brick, 8 stories, 45x175 feet, slag roof, vapor heating, electric lighting, tile and marble work, hollow metal skylights, fire doors, cement and pine floors, elevators, safety treads, metal weatherstrips, ornamental iron work. Sutton & Stephenson, 1317 Washington avenue, taking sub-bids.

Factory (alt. and add.), Fourth and Sedgley avenue, Philadelphia. Architect, private plans. Owners, Pecora Paint Co., on premises. Brick and reinforced concrete, second story addition, 100x50 feet and 2 stories, 25x50 feet, slag roof, pine floors (heating and plumbing reserved). John R. Wiggins & Co., Otis Building, taking sub-bids.

Residence (alt. and add.), 5854 Drexel Road. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owner, A. Simpson, 5854 Drexel Road, Philadelphia. Stone and steel, 1 story, 19x18 feet, tin roof, pine floors, hollow tile (heating extension), electric lighting. Architect taking bids, due August 29th. R. C. Ballinger & Co., 218 North Thirteenth street; M. W. Young, Overbrook, Pa., and Mowrer Bros., Merion, Pa., are figuring.

Bakery (add.), 1020 South Eighth street, Philadelphia. Architect, private plans. Owner, Nicholas A. Marinelli, 1020 South Eighth st., Philadelphia. Brick, 2 stories, 30x70 feet, new front and addition, rolled steel sash. Wm. F. Koelle & Co., Twenty-sixth and Thompson streets, lowest bidders.

Residence (alt.), 2433 North Sixth street, Philadelphia. Architect, Emil C. Schmidt, 419 North Fifty-fourth street, Philadelphia. Owner, Joseph C. Hadik, 325 East Thompson st., Philadelphia. Consists of interior alterations. Owner taking bids, due August 29th. Ketcham & McQuade, 1029 Brown street, are figuring.

Nurses' Home (add.), Fifteenth, above Race street, Philadelphia. Architect, private plans. Owners, Hahnemann Hospital, on premises. Brick and reinforced concrete, fireproof, 6 stories and basement, 38x21 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, cement and pine floors, metal lath, metal weatherstrips, damp-proofing. Owners have received bids.

Loft Building, 116-132 South Second street, Philadelphia. Architect not decided. Owner, J. W. Hallowell, Broad, below Chestnut street, Philadelphia. Reinforced concrete, 6 stories, 150x200 feet. Work contemplated.

Bank Building (alt. and add.), 819-821 Christian street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Phil-

adelphia. Owner, F. Di Bernardino, 6328 Vine street, Philadelphia. Brick, marble and stone work, interior tile and marble work, cabinet work, leaded glass, vault door, electric lighting. Owner has received bids.

Storehouse (add.), Philadelphia Depot, Peltz street and Schuylkill avenue. Architect, private plans. Owners, U. S. Government, Schuylkill Arsenal, Peltz street and Schuylkill avenue. Brick and stone (elevator shaft addition), 5 stories, 15x15 feet, cement floors, hollow metal skylights, 2 elevators. Low bidders: Charles Gilpin, Harrison Building, \$14,998, 50 days; W. W. Anstine & Co., 1218 Filbert street, \$17,900, time 95 days.

Quarters for Radio Operators, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Wood, concrete, 2 stories, 25x54 feet, asbestos shingle roof, hot water heating, electric lighting, waterproofing. Low bidders: Metzger & Fisher, Otis Building, \$15,947, time 90 days; W. W. Anstine & Co., 1218 Filbert street, \$16,747, time 180 days.

Power Plant, Thirty-fourth and Pine sts., Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, Philadelphia General Hospital, care of Dr. Wm. Krusen, 584 City Hall. Brick and stone, 1 story, 158x33 feet, 50x52 feet and 88x80 feet, slag roof (steam heating, plumbing and electric work reserved), marble and terrazzo work, rolled steel sash and skylights, hollow metal sash, cement floors, metal lath, fire and kalamein doors, iron stairs, ornamental iron work, damp-proofing. Owners taking bids, due September 12th. Wm. Linker Co., 831 Cherry street; Warren-Moore & Co., Colonial Trust Building; Standard Const. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street, and Charles McCaul Co., 1713 Sansom street, additional bidders.

Factory Building and Power House, Memphis and Tioga streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Treen Box Co., on premises. Brick (slow burning). Factory, 2 stories and basement, 60x100 feet; power house, 1 story, 30x60 feet, slag roof, steam heating, electric lighting, metal lath, cement and plank floors. Architect taking bids, due August 31st. H. E. Baton, 1713 Sansom street; Freund Const. Co., Bulletin Building; Metzger & Fisher, Otis Building; F. A. Havens & Co., 845 North Nineteenth street; J. R. Jackson, Perry Building; John F. Davies, 1021 Herbert street, and Robert Beatty & Bro., 2321 East Fletcher street, are figuring, on revision.

Sewage Disposal Plant (add.), Byberry, Philadelphia. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Health and Charities, Dr. Wilmer Krusen, Director, 584 City Hall, Philadelphia. Reinforced concrete and stone, emseher and dosing tank, sludge beds and sprinkler filters, wire

cloth. Low bidders: F. W. Mark Const. Co., Finance Building, \$87,870; W. W. Anstine & Co., 1218 Filbert street, \$98,450; W. A. Mundy Pav. and Const. Co., 227 South Ninth street, \$99,375.

Residence and Garage, Twelfth street, above Sixty-ninth avenue, Philadelphia. Architect, John H. Rothwell, Geneva avenue and Westford Road, Olney, Philadelphia. Owner, Chas. Dapp, 6916 York Road, Philadelphia. Brick and stucco, 3 stories, 46x35 feet, and 1 story, 14x22 feet, asphalt shingle roof, concrete, oak and pine floors (heating, plumbing and lighting reserved), tile and marble work, hollow tile, metal lath. Architect taking revised bids, due as soon as possible. John H. Dagney, York Road and Sixty-ninth avenue, Oak Lane; C. L. Hemmerly, Melrose, Pa.; W. John Stevens, Inc., Wyncote, Pa.; J. Sims Wilson Co., 1125 Brown street, and Alfred Steinhauser, 5424 North Fifth street, are figuring.

Warehouse (add.), Broad and Washington avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and reinforced concrete, 7 stories, 131x91 feet, prepared roof, concrete floors, hollow tile, rolled steel sash, fire doors, iron stairs, ornamental iron work, safety treads, metal window guards, waterproofing (heating, lighting and elevators reserved). Owners taking bids, due September 4th. Irwin & Leighton, 126 North Twelfth street; Cramp & Co., Denckla Building; Warren-Moore Co., Colonial Trust Building; Chas. McCaul & Co., 1713 Sansom street, and A. R. Raff Const. Co., 1635 Thompson street; Roydhouse-Arey Co., 112 North Broad street; F. W. Van Loon, Denckla Building; F. W. Mark Cons. Co., Finance Building; Conneen Cons. Co., 1737 Filbert street; W. W. Anstine & Co., 1218 Filbert street, are figuring.

Schools (improvements), Philadelphia, Pa. Architect, J. Horace Cook, Nineteenth street, above Chestnut street. Owners, Board of Education, Wm. Dick, secretary, Nineteenth above Chestnut street. Sanitary improvements, heating, gymnasium equipment, assembly room addition. Owners ready for bids, due September 6th at noon.

Connecting Bridge, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel, asphalt and felt roof, plank floors. Owners ready for bids, due September 4th.

Garage, 2623-25 West Huntingdon street, Philadelphia. Architect, Amos Barnes, Hermit and Righter streets, Roxboro. Owner, Leo F. Smith, 2600 Huntingdon street, Philadelphia. Brick, 1 story, 30x100 feet, slag roof, cement floors (heating, electric lighting, plumbing and gasoline storage system reserved). Architect taking revised bids, due as

HEATING

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Philadelphia, Pa.

THE
Hogg Construction Co., Inc.
1634 Sansom Street
Philadelphia

BUILDING Alterations
Additions
Construction New Buildings

"Personal Attention from
Foundation Walls to
Interior Trim."

GET OUR ESTIMATE BEFORE
AWARDING A CONTRACT

soon as possible. Conneen Const. Co., 1737
Filbert street, is figuring.

Colonnade Hotel (int. alt.), southwest corner of Fifteenth and Chestnut streets. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Bonwit, Teller & Co., southwest corner of Thirteenth and Chestnut sts. Brick and stone, alterations to first and second floors, oak and pine floors, tile and marble work, ornamental iron work. Plans in progress.

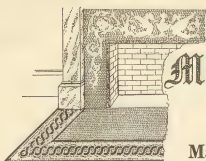
Loft Building, 906-16 North Broad street, Philadelphia. Architect not announced. Owner, Irving L. Wilson (Jacob Reed's Sons), 1424 Chestnut street. Brick and stone, 120x160 feet. Work contemplated. Too early for details.

Garage and Machine Shop, southwest corner of Woodland avenue and Yewdell street. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Isaac Dozor, 5632 Walnut street, Philadelphia. Brick, 1 and 2 stories, 89x92 feet, slag roof, cement and pine floors, steam heating, electric lighting, hollow metal skylights, elevator, gasoline storage system. Plans completed. Owner taking sub-bids.

Store (alt. and add.), northwest corner of Clarion street and Moyamensing avenue. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Wm. Korb, care of architect. Brick, 3 stories, consists of addition, brick, 2 stories, 16x30 feet, slag roof and general interior and exterior alterations, flush bulks, marble work, metal skylights, metal ceiling, combination lighting, electric work. Plans completed. Owner is ready for sub-bids.

Garage, 2623-25 West Huntingdon street, Philadelphia. Architect, Amos W. Barnes, Hermit and Righter streets, Roxborough. Owner, Leo P. Smith, 2600 Huntingdon street. Brick, 1 story, 30x100 feet, slag roof, cement floors (heating, electric lighting, plumbing and gasoline storage system reserved). Revised plans in progress.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 3326-28 North Broad street, Philadelphia, \$15,000. Architect, Max Haupt, Drexel Building, Philadelphia. Owner, Chas. Goldman, 731 Walnut street, Philadelphia. Brick and steel, 1 story, 77x98 feet, slag roof, cement floors (heating, lighting and gasoline storage system reserved). Contract awarded to S. Berger, 3923 North Broad street, Philadelphia.

Freight Station, Office and Sheds, Abbottsford avenue, near King street, Midvale Station, Philadelphia. Architects, Maintenance of Way Department, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Room 361, Broad Street Station, Philadelphia. Brick, steel, concrete foundations, 1 story, 38x52 feet and 160x14 feet, asphalt roof, steam heating, electric lighting, concrete and spruce floors, fire doors, safety treads, ornamental iron work. Contract awarded to Robbins Cont. Co., Lafayette Building, Philadelphia.

Store Building (alt.), 30-34 South Sixth st., Philadelphia, \$8,800. Architect, Wm. Woodburn Potter, 1710 Real Estate Trust Building, Philadelphia. Owners, L. H. & J. H. Warren, Lafayette Building, Philadelphia. Brick, 5 stories, consists of concrete, steel and timber reinforcing, plastering, carpenter work, painting. Contract awarded to F. B. Davis, 240 N. Sixteenth street, Philadelphia.

Power House, Girard Point, Philadelphia. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Concrete, 1 story, 30x50 feet, slag roof, concrete floors, rolled steel sash. Contract awarded to John N. Gill & Son, Otis Building.

Miscellaneous and Shop Buildings, Girard

Point, Philadelphia. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick, steel and stucco, 1 story, 50x90 feet, slag roof, steam heating, electric lighting, marble work, rolled steel sash, concrete and pine floors, metal lath, roof ventilators, dampproofing. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Apartments (alt.) and **Store**, Twenty-third and Venango streets, \$14,000. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Harry Chervin, 2100 Hunting Park avenue, Philadelphia. Brick, 3 stories, 16x70 feet, and 1 story, 16x30 feet, slag roof, hot water heating, electric lighting, tile work, hardwood, cement and pine floors, metal lath, iron stairs. Contract awarded to Geo. Weiss & Co., 1426 South Front street, Philadelphia.

Garage, 1933-39 North Franklin street, Philadelphia, \$12,000. Architect, private plans. Owner, C. J. Schneider, 1935 North Seventh street, Philadelphia. Brick, 1 story, 60x65 feet, slag roof, cement floors. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Garage and Storage (alt. and add.), Frankford avenue and Sarah street, Philadelphia, \$6,000. Architect, private plans. Owners, Otis Elevator Co., Sixteenth and Sansom streets, Philadelphia. Brick, 1 story, irregular (lighting and heating reserved), slag roof, cement floors, rolled steel sash. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Wash House, Fifty-eighth and Botanic avenue, Philadelphia, \$3,000. Architect, private plans. Owners, Gulf Refining Co., Morris

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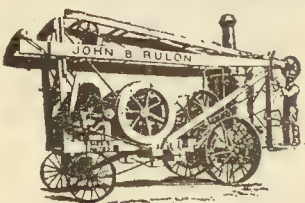
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Building, Philadelphia. Frame and iron, 1 story, 24x58 feet, slag roof, cement floors. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Dry Kilns, Tacony, Philadelphia, \$10,000. Architects, Grand Rapids Veneer Works, Dry Kiln Department, Grand Rapids, Mich. Owners, Henry Disston & Sons, Inc., Tacony, Philadelphia. Reinforced concrete and brick, 1 story, 64x34 feet, shed roof, hollow tile, wire work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Service and Display Building, Fortieth and

Walnut streets, Philadelphia. Architect, W. G. Wilkins, Pittsburgh, Pa. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Granite, brick, hollow tile and terra cotta. Service building, 1 story, 28x19 feet, irregular; display building, 1 story, 22 feet in diameter, terra cotta roof (heating, plumbing, electric work and fixtures, gasoline storage system reserved), cement and tile floors, metal lath, copper covered doors and windows, hollow metal skylights. Contract awarded to Metzger & Fisher, Denckla Building, Philadelphia.

PENNSYLVANIA

Construction News

Sewage Treatment Plant, Muncy, Pa. Architects, Albright & Mebus, Land Title Building, Philadelphia. Owners, State Industrial Home for Women, Muncy, Pa. Stone, reinforced concrete and brick. Chemical house, 1 story, 10x7 feet; percolating filter, 1 story, 13x43 feet; spring house, 1 story, 10x10 feet, shingle and Barrett roof, cement floors, electric lighting, metal lath, roof ventilators, waterproofing, ornamental iron work. Owners taking bids, due September 1st. Frank Smith, secretary Building Commission, West End Trust Building, Philadelphia. Metzger & Fisher, Otis Building; F. J. Boas, 201 North Broad street, and B. H. Coryell, Williamsport, Pa., are figuring.

Garage, Seybert Farms, Meadowbrook, Pa. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, John H. Daingerfield, care of architect. Terra cotta, 1½ stories, 29x23 feet, shingle roof, steam heating, electric lighting, cement and pine floors. Architect has received bids.

Foundry, Pattern Shop and Office Building, Morton, Pa. Engineer, Harry C. Eisenbise, Pennsylvania Building, Philadelphia. Owners, Bowen Anchor Co., care of engineers. Foundry, 1 story, steel frame, 90x20 feet; pattern shop, brick, 1 story, 22x75 feet; office building, brick, 2 stories, 22x40 feet, slag roof, cement floors, steam heating, electric lighting. Engineer ready for sub-bids.

Residence, Bowman avenue, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, E. J. Hedden, Finance Building, Philadelphia. Stone, rough cast, 2½ stories, 64x74 feet, slate roof, hardwood floors (heating, electric lighting and plumbing reserved). Owner is taking sub-bids.

Residence, Fox Chase, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, W. E. Strock, 7353 Second street pike, Philadelphia. Frame, 2½ stories, 29x39 feet, shingle roof, hot water heating, electric lighting, tile and marble

work, hardwood floors, plumbing. Plans about completed. Owner will take sub-bids in a few days.

School, Boyertown, Pa., \$75,000. Architect, Ed. Z. Scholl, 31 North Sixth street, Reading, Pa. Owners, School Board, George P. Rahn, secretary, Boyertown, Pa. Brick and stone, 2 stories and basement, 140x71 feet, slag roof, pine floors, steam heating, electric lighting, hollow metal skylights, kalamein doors, roof ventilators, waterproofing. Owner has received revised bids.

Residence, Shillington, Pa. Architect, L. D. Lance, Penn avenue, Wyomissing, Pa. Owner, John L. Rhodes, 527 North Ninth street, Reading, Pa. Frame and stucco, 2½ stories, 22x40 feet, slate roof, pine floors, hot water heating, electric lighting. Plans completed. Owner ready for bids.

Club House, Chester, Pa., \$50,000. Architect not selected. Owners, Knights of Columbus, Thomas Feeley, secretary of Building Committee, Chester, Pa. Three stories. Work contemplated.

Residence (alt.), southwest corner of Bowman avenue and Valley Road, Merion, Pa. Architect, Stanford B. Lewis, Stephen Girard Building, Philadelphia. Owner, Robert A. Neely, 1011 Chestnut street, Philadelphia. Stone and frame, 2½ stories, consists of general alterations. Owner taking sub-bids.

Residence, South Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Owner, Charles Worsley, South Bethlehem, Pa. Stucco, 2½ stories, 20x40 feet, shingle roof, pine floors, electric lighting. Plans in progress.

Municipal Building (alt. and add.), Market Hall, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Borough Council, Borough of South Bethlehem, South Bethlehem, Pa. Brick, 3 stories, asphalt roof, pine floors (heating, lighting and elevator reserved), hollow metal skylights, hollow tile, roof ventilators, dampproofing, ornamental

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iron work. Owners taking bids. George Merdinger, Wilbur Trust Building, South Bethlehem, Pa., is figuring.

Houses (30), South Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Owner, Albert Jacobs, The Merchant, South Bethlehem, Pa. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot air heating, electric lighting. Plans completed. Owner is sub-letting.

Residence, Allentown, Pa., \$6,000. Architect, David Levy, 938 Hamilton street, Allentown, Pa. Owner's name withheld. Hollow tile and stucco, 2 stories and basement, 30x30 feet, slate roof, pine floors, vapor vacuum heating, electric lighting. Plans completed. Architect taking sub-bids.

Home, Fourth and Hamilton streets, Allentown, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owners, Rescue Mission, Allentown, Pa. Brick and hollow tile, 3 stories and basement, 40x100 feet, composition roof, pine and composition floors (vapor heating and electric work reserved), combination lighting, hollow tile, dumbwaiters, iron stairs. Architect ready for revised bids.

Residence, West Side, Bethlehem, Pa., \$5,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, E. D. Jerome, West Side, Bethlehem, Pa. Frame, 2½ stories, 30x40 feet, shingle roof, pine and oak floors (plumbing, hot water heating, wire work and hardware reserved), electric lighting, tile work. Plans completed. Owner ready for bids.

Apartment House, South Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Owner, William Gross, South Bethlehem, Pa. Brick, 3 stories (electric fixtures and heating reserved), slag roof, yellow pine floors, electric lighting. Owner ready for bids.

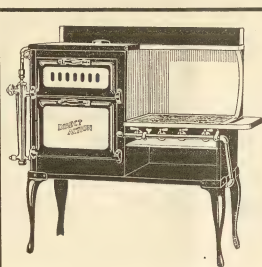
Stores (5), South Bethlehem, Pa. Architect, E. H. Bitting, Wilbur Trust Building, South Bethlehem, Pa. Owner, Stephen Soltis, South Bethlehem, Pa. Brick, 1 story, slag roof. Plans completed. Architect ready for bids.

Infirmary (alt.), Eaglesville, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owner, Jewish Sanatorium, care of S. M. Swaab, 704 Pennsylvania Building, Philadelphia. Consists of interior alterations, frame, 1 story, mill work, shingle roof, cement and nine floors, plastering, plumbing, electric lighting, tile work, heating extension. Owner taking bids, due August 29th. H. E. Gran Co., 1707 Sansom street; Frank Leonard, Land Title Building, Philadelphia, and Decker Bros., Norristown, Pa., are figuring.

Residence, Merion, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner's name withheld. Stone, frame and plaster, 2½ stories, 40x26 feet; wing 19x12 feet. shingle roof, hot water heating, electric lighting, tile work, oak floors. Plans completed. Architect will take bids in a few days.

Residence (alt. and add.), Haverford, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner, Charles E. Mather, Haverford, Pa. Stone, limestone trimmings, 1 story, 10x50 feet. slag roof, concrete floors, electric lighting. Architect taking sub-bids.

School (add.), Paxton, Race, Ott and Front streets, Harrisburg, Pa. Architect, M. M. Bair, 1911 Derry street, Harrisburg, Pa. Owners, School Board, D. D. Hammelbaugh, secretary, 121 Chestnut street, Harrisburg, Pa. Brick, 2 stories, 60x66 feet, tile roof, pine floors, steam heating, electric lighting, metal lath. Owners taking bids, due September 7th. E. N. Lebo,



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1122 Berry Hill street; George K. Sassaman, 1803½ Market street; A. E. Gettys, 268 Puffer street, and A. Wildman, 2206 North Third street, Harrisburg, Pa., are figuring.

Residence (alt. and add.), Byberry Road, Andalusia, Pa. Architect, Samuel D. Milner, Crozer Building, Philadelphia. Owner, A. W. France, on premises. Frame, 2 stories, 14x20 feet, tin roof, cement and pine floors (heating and lighting reserved by owner), plumbing. Plans completed. Architect ready for sub-bids.

School, Ashland Heights, Montgomery County, Pa., \$70,000. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, Superintendent of Schools, Ardmore, Pa. Stone, hollow tile and stucco or brick veneer,

1 story and basement, 158x173 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, metal lath, roof ventilators, metal weatherstrips, waterproofing, dampproofing, wire work, ornamental iron work. Architect taking revised bids, due September 10th. James H. Wells, Otis Building; E. J. Hedden, Finance Building; A. L. Pretz & Son, Heed Building; Raith Const. Co., 304 Master street; H. E. Baton, 1713 Sansom street; R. C. Balinger & Co., 218 North Thirteenth street; Hughes-Foulkrod Co., Commonwealth Building, Philadelphia; Frank H. Mahan, Ardmore, Pa.; Mowrer Bros., Merion, Pa.; Chas. C. Pace, Merion, Pa., are figuring.

PENNSYLVANIA

Contracts Awarded

Garage, Bethlehem, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owner, F. E. Weinland, Bethlehem, Pa. Brick, 1½ stories, 22x24 feet, slate roof, cement floors, gasoline storage system. Contract awarded to George Heller, Bethlehem, Pa.

Stable, Glenolden, Pa. Architect, private plans. Owners, H. K. Mulford Co., 428 South Thirteenth street, Philadelphia. Frame, 2 stories, 132x62 feet, asbestos shingle roof, cement floors. Contract awarded to Robert E. Lamb Co., 1314 Arch street, Philadelphia.

Residence, Chester, Pa. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owner, H. J. Klaer, care of architects. Stone, 2½ stories, 54x69 feet, slate and tin roof, pine and cement floors, hot water heating, electric lighting, tile and mar-

ble work, metal lath, dampproofing. Contract awarded to Wm. Provost, Chester, Pa.

Garage, Womelsdorf, Pa. Architect, C. J. Young, Reading, Pa. Owners, Womelsdorf Motor Car Co., George W. Hix, Womelsdorf, Pa. Brick and concrete, 1 story, 46x220 feet, Barrett roof, yellow pine floors, steam heat, electric light, fire doors, metal lath, waterproofing (gasoline storage system reserved). Contract awarded to Berks Const. Co., Baer Building, Reading, Pa.

Hotel, Northampton Heights, Pa. Architect, H. J. Weigner, Bethlehem, Pa. Owner, James F. Miller, South Bethlehem, Pa. Brick, 3 stories and basement, 43x85 feet, slag and Spanish tile roof, steam or hot water heating, electric lighting, tile and marble work, yellow pine floors, fire escapes. Contract awarded to Steinbach & Nace, Quakertown, Pa.

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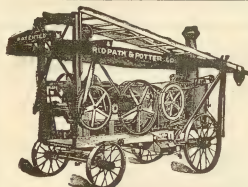
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Gate House, Chester, Pa. Architect, private plans. Owners, Sun Ship Building Co., Chester, Pa. Frame, 1 story, 73x26 feet, rubberoid

roof, maple floors, electric lighting. Contract awarded to Barclay White & Co., 1713 Sansome street, Philadelphia.

NEW JERSEY Construction News

Y. M. C. A. Building, Rahway, N. J. Architect, John F. Jackson, 1328 Broadway, New York City. Owners, Y. M. C. A., Rahway, N. J. Brick and reinforced concrete, 3 stories, 93x131 feet, slate and tile roof, electric lighting (heating reserved), tile and marble work, rolled steel sash, hollow metal skylights, fire doors and escapes, maple, cement and pine floors, metal lath, waterproofing, dampproofing, ornamental iron work. Owners have received revised bids.

Store (int. alt.), Pennsgrove, N. J. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, J. Schultz, Pennsgrove, N. J. Consists of general interior alterations, cabinet work, flush bulks, maple and hardwood flooring, electric lighting. Plans about completed. Owner will take bids in a few days.

Store (alt.), Pennsgrove, N. J., \$1,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, A. X. Schwartz, care of architect. Consists of stone front, 1 story, 20 feet, metal bulks. Plans in progress. Architect will take bids in a few days.

Magazine Store Houses (2), Lake Denmark, N. J.; (1) Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks. F. R. Harris, Chief, Navy Department, Washington. D. C. Terra cotta block, stucco and steel, 2 stories, 150x50 feet, asbestos shingle roof, hot water heating, electric lighting, tile work, rolled steel sash, fire doors, iron stairs, concrete and pine floors, ele-

vators, dampproofing. Owners have received bids.

Garage, Haddon avenue and Chestnut street, Camden, N. J., \$8,000. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, Newton N. B. T. Roney, Camden, N. J. Brick, 1 story, 100x20 feet, slag roof, cement floors, electric lighting, gasoline storage system. Plans completed. Owner taking sub-bids.

Stores and Apartments, Pennsgrove, N. J., \$7,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Matthew Mitchell, Pennsgrove, N. J. Brick and frame, 3 stories, 36x30 feet, slag roof, pine floors, metal lath, combination lighting, fire escapes, roof ventilators. Architects taking bids, due September 1st. Peterson Const. Co., Clayton, Pa.; Pointier & Michael, Parson & Robinson, H. H. Hoffman, Walter Randolph, all of Pennsgrove, N. J., are figuring.

Garage, Front and York streets, Camden, N. J., \$4,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Thomas E. French, care of architects. Brick and tile, 1 story, 20x100 feet, slag roof, cement floors, hollow tile, electric lighting, rolled steel skylights, roof ventilators (gasoline storage system reserved). Architects taking bids, due September 1st. Wm. Wifford, E. F. Turner Co., George Bachmann, Mockett Const. Co., all of Camden, N. J., and Evans Const. Co., 9 South Eighteenth street, Philadelphia, are figuring.

Residence, Morris Heights, N. J. Architects,

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Kleeman & Fowler, Second National Bank, Trenton, N. J. Owner, W. H. Young, Trenton, N. J. Stone, 2½ stories, 36x33 feet, slate roof, hardwood floors, hot water heating, electric lighting. Plans in progress.

School, Mount Laurel, Burlington County, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Mt. Laurel, Burlington County, N. J. Brick, 2 stories and basement, 68x60 feet, slate roof, pine floors (steam heating, electric work and plumbing reserved), waterproofing. Revised plans in progress.

Hotel (alt.), Trenton, N. J. Architect, private plans. Owners, Trenton House, Warren and Hanover streets, Trenton, N. J. Consists of general interior and exterior alterations, carpenter work, tile floors, electric lighting. Owners sub-letting.

Store and Loft Building (alt.), 121 East State street, Trenton, N. J. Architects, Kleeman & Fowler, Second National Bank Building, Trenton, N. J. Owner, Wm. Darling, Trenton, N. J. Brick, 3 stories, 88x20 feet, slag roof, pine and tile floors, hot water heating (electric fixtures and elevator reserved), electric lighting, tile and marble work, rolled steel sash, fire doors, fire escapes, wire lath, pine and tile floors, ornamental iron work. Architects taking bids, due August 29th. I. Harper Clayton, Ed. La Rue, W. J. Ivins, S. Wiley, C. Y. Barlow, and Carl Poinsett, all of Trenton, N. J., are figuring on carpenter work, and Burton & Burton, Fred Scott, J. H. Morris, and S. W. Mather & Son, all of Trenton, N. J., are figuring on mason work.

Residences (4), Harris avenue, Trenton, N. J. Architect, private plans. Owner, David Putehant, 117 Wayne street, Trenton, N. J. Brick, 2½ stories, slate roof, pine floors, hot air heating, electric lighting. Owner taking sub-bids.

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New Jersey Contracts Awarded

Store (alt. and add.), South Broad street, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, Philadelphia Bargain Store, Henry Wirtschafter, on premises. Brick, 3 stories, 35x70 feet, tin roof, pine floors (steam heating, electric lighting and plumbing reserved). Contract awarded to William R. Ivins, Trenton, N. J.

Sunday School (alt. and add.), Merchantville, N. J., \$1,200. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Grace P. E. Church, Merchantville, N. J. Frame, shingle roof, lighting and heating extensions. Contract awarded to Martin T. James, Merchantville, N. J.

Carpenter and Pattern Shop, New York avenue, Trenton, N. J. Architect, R. A. Schumann, 932 Lambertson street, Trenton, N. J. Owners, Trenton Malleable Iron Co., on premises. Brick, 2 stories, 28x128 feet, slag roof, yellow pine floors (elevators and heating reserved), electric lighting, rolled steel sash. Contract awarded to S. W. Mather & Son, Trenton, N. J., on mason work.

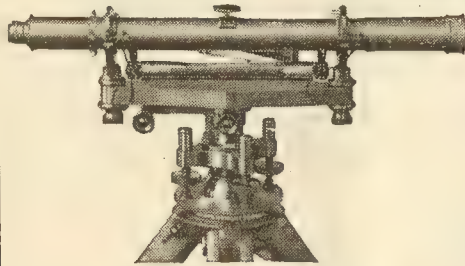
Factory, Paulsboro, N. J. Architect, Samuel M. Green, Springfield, Mass. Owners, American Ammunition Co., 14 Broad street, New York City. Brick, 1 story, 80x160 feet, composition roof, pine floors, hollow metal skylights. Contract awarded to W. B. Poreh, Sheen Building, Atlantic City, N. J.

Garage and Machine Shop, Camden, N. J. Architect, Wm. H. Day (Building Inspector), City Hall, Camden, N. J. Owners, City of Camden, Department of Public Property, Camden, N. J. Brick, 1 story, 37x112 feet, asbestos roof, cement floors, hot water heating, electric lighting. Contract awarded to J. W. Draper, Camden, N. J.

Miscellaneous Construction News

Garage and Chauffer's Quarters, near Wilmington, Del., \$8,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, C. B. Holladay, Wilmington, Del. Hollow

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tile and stucco, 1½ stories, 25x50 feet, shingle roof, steam heating, electric lighting, gasoline storage system. Plans about completed. Architect will take bids in a few days.

Store Front (10) (alts.), Tenth and French streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, A. L. & F. M. Crawford, 916 Delaware avenue, Wilmington, Del. Brick, 1 story. Plans about completed. Architect ready for bids in a few days.

Restaurant (alt.), 236 Fifth avenue, New York City. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Horn & Hardart Baking Co., 210 South Tenth street, Philadelphia. Consists of general interior alterations, tile floors, ornamental plaster work, cement work, automatic machinery. Contract awarded to Harry R. Rust, 1724 Ludlow street, Philadelphia.

Tire Shop (alt.), Delaware avenue and West street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, N. W. Howell, on premises. General interior alterations. Brick, 3 stories. Contract awarded to George Rodman, Delaware

avenue and West street, Wilmington, Del.

Coal Pocket, Wilmington, Del. Architects, Dougherty & Thompson, Ford Building, Wilmington, Del. Owner, J. E. Perry, Wilmington, Del. Concrete. Contract awarded to A. S. Reed & Bro. Co., Wilmington, Del.

Store House, Hampton Roads, Va. Architects, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Washington, D. C. Reinforced concrete, tile and brick, 5 stories, 118x358 feet, slag roof, pine floors, steam heating, electric lighting, rolled steel sash and skylights, fire doors, kalamein and hollow metal doors, hollow tile, elevators, wire work. Low bidders, Cramp & Co., Denckla Building, Philadelphia, \$480,000.

Pipe Storage House, Wilmington, Del. Architects, Maintenance of Way Department, Room 361, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Corrugated iron, frame and concrete, 1 story, 33x27 feet, slag roof, plank floors. Plans completed. Owners, care of G. Latrobe, superintendent Maryland Division (P., B. & W. R. R.), Wilmington, Del., will take bids.

MARYLAND

Construction News

Theatre (add.), North avenue and Charles street, Baltimore, Md. Architect, Thomas W. Lamb, 644 Eighth avenue, New York City. Owners, Parkway Theatre Co., George R. Webb, Fidelity Building, Baltimore. Brick and steel and concrete, electric lighting, steam heating, ornamental iron work, ventilators, plastering, painting, modern plumbing. Plans in progress.

Church, Charles street and University Parkway, Baltimore, \$30,000. Architect, Theo. Wells Pietsch, American Building, Baltimore. Owner, A. W. Wilson Memorial M. E. Church (South), care of J. W. Smith, 3013 Guilford avenue, Baltimore, Md. Brick, stone trimmings, slag roof, 1 story at present. Plans completed. Architect ready for bids.

Prison, Brooklyn, Md. Architect, Herbert G. Crisp, 2709 St. Paul street, Baltimore, Md. Owners, Anne Arundel County Commissioners, Brooklyn, Md. Brick, 2 stories. Plans in progress.

Store and Apartments (alts.), 520 Columbia avenue, Baltimore, Md., \$3,000. Architect, J. C. Spedden, 2715 Harlem avenue, Baltimore. Owner, Dominick Citrano, 518 Columbia avenue, Baltimore. Consists of new front, metal ceiling, electric work, new floors. Owner is taking bids.

Apartment, Broks Lane, Baltimore, Md.

Architect, Clyde N. Friz, Munsey Building, Baltimore, Md. Owner, J. Henry Smith, 1426 Light street, Baltimore. Brick, 3 stories, slag roof, hot water heating, electric lighting, tile work. Owner will take sub-bids.

Store, Springdale and Edge avenues, Baltimore, Md. Architect, private plans. Owners, Mather Building Co., Baltimore, Md. Brick, 1 story, tin or slag roof, electric lighting, plastering, painting, plumbing. Owners are taking sub-bids.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

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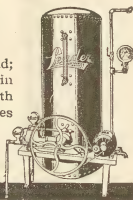
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MARYLAND

Contracts Awarded

Store (alt.), 515 South Broadway, Baltimore, Md. Architects, Callis & Callis, 2020 Kennedy avenue, Baltimore. Owners, Morris & Jacob Hamburger, 505 South Broadway, Baltimore, Md. New front, windows, sheet metal work, new floors (electric work and plumbing reserved). Contract awarded to Jos. Schamberger, 1 Duncan street, Baltimore, Md.

Church, Harford Road and Echodale avenue, Baltimore, Md. Architects, Blanke & Zink, Equitable Building, Baltimore. Owners, Hamilton Baptist Church, Henry Gontum, Hamilton and Magnolia avenues, Baltimore, Md. Brick and stucco, 65x59 feet, slate roof, steam heating, electric lighting, iron work, plastering, painting, plumbing. Con-

tract awarded to E. Eyring & Son, 800 South Third street, Baltimore, Md., who are taking sub-bids.

Community Building, Annapolis Junction, Md., \$7,000. Architect, private plans. Owners, Knights of Columbus, Annapolis, Md. Frame, 1 story, 60x150 feet, shingle roof, electric lighting. Contract awarded to Claiborne-Johnston Co., Garrett Building, Baltimore.

Residence, Colgate P. O., Md., \$6,000. Architect, private plans. Owner, James Lambert, on premises. Concrete foundation, frame, 2 stories, tin and shingle roof, hot air heating, plumbing. Contract awarded to Jos. S. Schamberger, 1 Duncan street, Baltimore.

PROGRESS IN THE DEVELOPMENT OF BALTIMORE'S CIVIC CENTER.

The civic-center plan for Baltimore prepared for the Municipal Art Society in 1910 by John M. Carrere, Arnold W. Brunner, and Frederick Law Olmsted, was given a new lease of life recently when the mayor proposed a vote by the people of a \$3,000,000 bond issue for carrying out the project. This bond issue was authorized by the Legislature in 1908, but was never submitted to the voters for ratification. Since the Mayor's suggestion

was made public, the City Planning Commission, the Park Board, the Municipal Art Society, and the Committee on Housing have devised a plan to facilitate the financial accomplishment of the plan.

The scheme involved the immediate acquisition of three city blocks lying between the City Hall and Fallsway, the latter a recently completed highway constructed above what was formerly an open creek called Jones Falls. The Court House, Post Office and City Hall form the nucleus of the civic center.

The plan proposed and the method of financ-

ing it has met with general approval, but the whole scheme has been set back temporarily by a court action recently instituted by owners of the property to be taken. An existing ordinance under which it is proposed to condemn this land was deemed insufficient to enable the city to take title. When legal difficulties are removed, it is proposed that the civic-center scheme should proceed as originally planned.

FOURTEEN RULES FOR FIGURING COST AND PROFIT AS RECOMMENDED BY THE NATIONAL ASSOCIATION OF CREDIT MEN.

1. Charge interest on the net amount of your total investment at the beginning of your business year, exclusive of real estate.

2. Charge rental on real estate or buildings owned by you and used in your business at a rate equal to that which you would receive if renting or leasing it to others.

3. Charge in addition to what you pay for hired help an amount equal to what your services would be worth to others; also treat in like manner the services of any member of your family employed in the business not on the regular payroll.

4. Charge depreciation on all goods carried over on which you may have to make a less price because of change in style, damage or any other cause.

5. Charge depreciation on buildings, tools, fixtures, or anything else suffering from age or wear and tear.

6. Charge amounts donated or subscriptions paid.

7. Charge all fixed expenses, such as taxes, insurance, water, light, fuel, etc.

8. Charge all incidental expenses, such as drayage, postage, office supplies, livery or expenses of horses and wagons, telegrams and telephones, advertising, canvassing, etc.

9. Charge losses of every character, including goods stolen or sent out and not charged, allowance made customers, bad debts, etc.

10. Charge collection expenses.

11. Charge any other expenses not enumerated above.

12. When you have ascertained what the sum of all the foregoing items amounts to, prove it by your books, and you will have your total expense for the year; divide this figure by the total of your sales, and it will show you the percentage which it has cost you to do business.

13. Take this percentage and deduct it from the price of any article you have sold, then subtract from the remainder what it cost you (invoice price and freight) and the result will show your net profit or loss on the article.

14. Go over the selling prices of the various

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articles you handle and see where you stand as to profits, then get busy in putting your selling figures on a profitable basis and talk it over with your competitor as well.

THE MACDOUGAL ALLEY FESTA.

It was with confidence in Mrs. Harry Payne Whitney's intuition that we undertook to make of Macdougall Alley a little street, such as one sees in Lucca or Faenza, or indeed, any other central Italian town. Very often these little Italian cities have been the capital of an ambitious tyrant of the thirteenth or fourteenth century, and the seat of a small vain-glorious aristocracy. These cities were the cradles of the Renaissance, and the inheritors of princely pretensions. It is in consequence most usual to find in them the uncompleted works of ambitious nobles abandoned through the picturesque possibilities of the Italian past. It seemed to me that the low stables of Macdougall Alley might be grouped behind such frustrated facades; here a noble marble basement topped with indiscriminate shanties, further on a fortresslike ancient front transformed by a graceful later superstructure. I thought a little of the biography of towns and how houses are built at all periods with equal seriousness, and I then even included false classic buildings of the Napoleonic era in Italy. There are florid little chapels and serious little parish houses; there are belfries rising above concealed convents; there are secretive garden walls and pompous gateways leading to nothing. Here and there, above a disordered line of houses, rises the characteristic loggia hung with wash and drying onions, and out of all the windows I thought it would be life-like to throw the pathetic colored draperies which the modern poor hang out for Corpus Christi, and any other holiday, or even the bedsheets draped with a few flowers, or a precious counterpane. We copied the lights from documents, preserving the traditions for lighting the Palio at Sienna, practiced during centuries, and we took the rigidity off a modern apartment house by throwing up tall buttresses against it to resist a normal Italian tendency in towers to lean. There were trees in Macdougall Alley back yards which were a godsend to us, but a friendly florist was ready to conceal many defects, and to veil the nakedness of mere architecture in those showers of balcony flowers and vine which characterize the country towns of Italy. It is an immense pleasure to us that some exiled citizens of Italy have whispered into our ears words showing that the note was at least sufficiently well struck, and that these facades of pasteboard brought back to them visions of many a dormant little street in its old winding sheet of Italian sunlight.—Paul Chalfin, in "Architecture and Building."

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LUMBER AND CONCRETE.

Backed by a declaration that war demands for steel will increase and that the utmost we can produce will be below the requirements of ourselves and our allies, an urgent plea is made that steel be used for general business purposes only when the requirement is unavoidable. Lumber and concrete are strongly advocated instead, and there comes the intimation that unless a steel substitute is found some manufacturers may be obliged to curtail or even suspend operations during our participation in the European conflict.

The message goes to business men in the second of a series of war bulletins sent out by a committee of the Chamber of Commerce of the United States co-operating with the Council of National Defense.

It should be anticipated that the steel situation which is developing with rapidity will probably make it impossible for those general manufacturers, unable to find a steel substitute, to secure adequate supplies of steel and may even make it impossible to secure any.

No substantial increase in production is anticipated. Even maximum production from existing facilities cannot be expected because transportation, labor and material conditions will interfere with the full operation of plants. On the other hand, indications are that the war requirements will continue to increase.

Steel is needed in war for ships, railroad cars and locomotives, rails, trucks and containers, the bulletin goes on. It must be had for shells and other munitions work—requirements large in tonnage far beyond what is generally supposed. In addition, business producing government materials and supplies, the necessities of life and the materials for producing the necessities of life, require steel in great quantities for building, machinery, tools and containers. When all these requirements are met, it is said, little if any steel will be left for so-called general business.

Materials which can be used in substituting

for steel are plentiful in comparison. Lumber may be expected to meet all needs, and cement may be had in quantity for concrete work. While there may be delays in getting supplies of these materials, a hopeless shortage does not exist.

The course for business men to pursue is clear, it is advised. Every effort should be made to use wood and concrete in place of steel whenever this can be done, and construction and development work requiring steel should be postponed wherever possible.

In purchasing materials and supplies, it is argued, business men will doubtless consider the wisdom of returning, so far as possible, to doing business locally. The extraordinary service being rendered by the railroads in connection with the war will limit general transportation service and put an end during the war to the condition which has developed during the past fifty years through the prompt and reliable transportation facilities afforded by the railroads. Purchase must be made near at home wherever this can be done. The preference which must be given to shipments of iron and steel will soon make this situation of daily importance.—"Realty."

ILLUMINATED KEYHOLE.

By means of a small electric lamp concealed in a door knob, and operated by a push button, also concealed in the back of the knob, an Ohio inventor has made it possible for the late comer to find the keyhole, even in the darkest night. The lamp is so located that the light is thrown directly on the keyhole.

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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Dwelling, 7975 Oxford avenue, 6,700. J. J. Finegan (O), Fox Chase, Pa. Joseph Ashby (C), Fox Chase, Pa. Stone and brick, 3 stories, 16x25 feet slate roof, hot water heating.

Garage, 131 East street, \$300. A. Golombewski (O), on premises. Mike Duva (C), 4153 Cresson street. Brick, 1 story, 12x24 feet, slag roof.

Dwellings (6), Eighty-third and Botanic streets, \$9,000. George Kyle (O and C), Seventy-third and Gray's avenue. Brick, 2 stories, 14x36 feet, asphalt roofing, hot air heating.

Power House, Passyunk avenue and Twenty-eighth street, \$21,150. Atlantic Refining Co. (O and C), 3144 Passyunk avenue. Brick and concrete, 1 story, 41x42 feet, gravel roof.

Open Shed, 5637-45 Cherry street, \$400. Thomas P. Lee (O and C), 5629 Cherry street. Lumber, 25x72 feet.

Service Station, Fortieth and Walnut sts., \$18,500. Atlantic Refining Co. (O), Philadelphia. Metzger & Fisher (C), Otis Building. Brick and terra cotta, 1 story, 24 feet dia.,

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and 1 story, 30x30 feet, enclosing wall 69 feet long.

Garage, 619 Pelham avenue, \$600. Robert Killoyd (O and C), Wayne and Dural street. Stone, 1 story, 13x21 feet, slate roof.

Garage, 3326-28 North Broad street, \$15,000. Charles Goldman (O), 731 Walnut street. S.

Alterations and Additions

Janitor's Lodge, 5505 Germantown avenue, \$3,000. Y. W. C. A. (O), 5503 Germantown avenue. W. J. Grubler Co. (C), 219 High street. Brick walls, new flooring, tin roof, plastering, heating, electric lighting, plumbing.

Bank, Boston and Kensington avenue, \$3,000. Western Savings Fund Co. (O), Tenth and Walnut streets. J. Ed. Atkins (C), 249 South Twenty-fourth street. Brick, 1 story, 26x10 feet, cement floor, slag roof, alterations.

Carriage and Wagon Shed, 44-46 Manheim street, \$1,000. S. B. Jaugurth (O and C), 49 Manheim street. Brick, 1 story, 20x20 feet, slag roof.

Church, Queen street and Germantown avenue, \$3,500. Trinity Lutheran Church (O), 2962 North Bailey street. Harry J. Schwellun (C), 13 Wister street. Stone and brick, one-story front addition, 15x14 feet; one-story side addition, 17x6 feet; one-story rear addition, 7x9 feet.

Dwelling, 157 Pelham road, \$500. Ed. Budd (O), on premises. Thomas Seeds, Jr., Co. (C), 1207 Race street. Alterations.

Dwelling, Twenty-third and Venango avenue, \$2,200. H. Chervin (O), 2100 Hunting Park avenue. Max Cotler (C), 1240 North Forty-second street. Brick addition, 1 story, 16x26 feet, slag roof.

Coal Yard and Office, 918 Berks street, \$912. M. J. Hess Estate (O), 517 Chestnut street. J. H. Osmond (C), 612 Race street. Rebuilding brick wall.

Y. M. C. A., 1421 Arch street, \$600. Y. M. C. A. (O and C), on premises. Laying cement floor.

Wall, Second and Clearfield streets, \$600. Joe R. Foster & Son (O), on premises. Frank Achuff (C), 1600 North Front street. Brick wall, 48 feet long, 10 feet high.

Dwelling, Monton avenue and Cotman st., \$2,500. Charles Umberger (O), 2345 Camac street. Nowling Bros. (C), 32 Robbin avenue. Alterations.

Dwelling, 3133 Clifford street, \$350. M. Price (O), P. Robin (C), 226 North Fifteenth street. Brick, 1 story, 12x12 feet, slag roof.

Baker Shop, 870 North Marshall street, \$1,000. Joe Hutman (O), W. Zurtsky (C), 546 Rudolph street. Brick, 1 story, 15x26 feet, slag roof.

Dwelling 5535 Bayton street, \$1,000. V. De Morro (O), on premises. A. Caine (C), 3839 North Delli street. Brick, second story, 15x30 feet, slag roof.

Dwelling, 43x45 Upsal street, \$1,000. F. J. O'Donnell (O and C), Broad and Chelton avenue. Stone piers to place timber.

Garage, 1933-39 North Franklin street, \$12,000. C. J. Schneider (O), 1935 North Seventh street. Harry Gill, Jr. (C), 2515 Germantown avenue. Brick, 1 story, 60x65 feet, slag roof.

Friends' Meeting House, Coulter and Queen streets, \$425. Preparatory Meeting of Friends (O), on premises. Wm. C. Wright (C), 22 Harvey street. Two skylights and tin roof.

Dwelling, 6923 Queen street, \$1,500. Mary B. Keyser (O), 266 Harvey street. Wm. C.

Berger (C), 3923 North Broad street. Brick, 1 story, 77x88 feet, slag roof.

Dwelling, Montour and Bleigh streets, \$1,400. Ida May Adams (O), 1810 East Clementine street. James Adams (C), 1810 East Clementine street. Frame, 2 stories, 15x32 feet, shingle roof.

Wright (C), 22 Harvey street. Frame, 1 story, 13x10 feet.

Factory, 3431-33 Market street, \$1,200. Walter Snyder Co. (O), on premises. E. Tourison (C), 1001 Chestnut street. Brick, 1 story, 80x8 feet, 26x6 feet and 27x15 feet, slag roof, all metal and fireproof.

Dwelling, Linden and Springer streets, \$500. J. C. Heitor (O), on premises. James N. Mitchell (C), Forty-sixth and Market streets. Stone, 1 story, 12x6 feet, tile roof.

Storage Building, Fifty-eighth and Botannie streets, \$3,000. Gulf Refining Co. (O), on premises. Smith-Hardican Co. (C), 1606 Cherry street. Frame, 1 story, 24x58 feet.

Garage and Storage, Frankford and Sarah street, \$6,000. Otis Elevator Co. (O), Sixteenth and Sansom streets. Smith-Hardican Co. (C), 1606 Cherry street. General repairs and alterations, brick walk.

Shop, 64-66-68 North Johnson street, \$3,500. John G. Gray (O and C), Wissahickon and Green Lane. Stone, 1 story, 40x60 feet, slag roof.

Chimney, Byberry City Farms, \$7,600. Philadelphia General Hospital (O), Thirty-fourth and Pine streets. Alphons Custodis C. C. Co. (C), Pennsylvania Building. Erection of chimney.

Dwelling, 2643 East Somerset street, \$500. Joe Clement (O), Frank Boffa (C), 3131 Tilton street. Brick wall.

Mill, 2123-33 East Seltzer street, \$6,000. Joseph Gubbins (O), 612 Olney avenue. A. Swenson (C), 2039 Auburn street. Fire repairs.

Garage, 672-74 North Broad street, \$15,800. Sam Gorson (O), 238 North Broad street. George H. Frank (C), 1113 Cherry street. Metal bulks, concrete floors, tile floors, plumbing and heating.

Dwelling, 1301-03 Northeast Boulevard, \$19,000. Reinbrant B. and L. Association (O), 1305 Arch street. John V. Russell (C), 6038 Walton avenue. Alterations.

Dwelling, Lawrence and Cayuga streets, \$587. Kate and Mary Shea (O), east side of Lawrence street. George R. Dewees (C), 311 Grange avenue. New front, 1 story high.

Garage, Rising Sun avenue and Gilham, \$370. F. Gerstlaue (O), 6518 Rising Sun avenue. M. Moister Co. (C), 3931 North Fifth street. Iron on iron, 16x18 feet, 1 story.

Residence, 106x108 Pennsdale avenue, \$300. B. Sneider (O), New York City. P. Orliner (C), 105 Roxboro street. Brick, second story, 16x16 feet.

Dwelling, Sixty-ninth avenue, east of Eleventh street, \$800. W. B. Barrows (O), P. R. Hill (C), 6700 North Sixth street. Alterations.

Storage Building, 145 North Fifth street, \$1,000. H. Horshmann Co. (O), Fifth and Cherry streets. Frank English (C), 1608 N. Carlisle street. Brick, 1 story addition, 16x40 feet.

Store and Dwelling, Twenty-first and Brandywine streets, \$1,100. F. Lersellor (O). H.

Voight (C), Twenty-eighth and Thompson streets. Interior alterations.

Dwelling, 1308 North Broad street, \$1,000. Mrs. Louis Jurist (O), 916 North Broad street. Raith Const. Co. (C), 302 Master street. New bay window and alterations.

Incinerator Building, Fifteenth and McKean streets, \$1,500. Sisters of St. Francis (O), St. Agnes' Hospital. James J. Murphy (C), 4034 Powelson avenue. Brick, 1 story, 15x15 feet, tile roof.

Dwelling, 5113 Wynnefield avenue, \$500. B. Brodsky (O and C), 449 North Third street. Stone, second story bay window.

Warehouse, 30-32-34 South Sixth street, \$8,755. L. H. Warren (O), 808 Lafayette Building. W. W. Potter, architect, Real Estate Trust Building. F. B. Davis (C), 240 N. Sixteenth street. Alterations.

Store, 1244 Girard avenue, \$1,400.2 Bebrimant Abil (O), 929 North Thirteenth street. F. B. Mitchell (C), 1514 Cambridge street. Brick, 3 stories, 3x37 feet, slag roof.

Store and Dwelling, Pike Fairhill, \$350. L. Parmaina (O), on premises. N. Carvi (C), 2828 Van Pelt street. Alterations.

Store, 2405 South Broad street, \$1,900. M. Mezey (O), on premises. N. Libman (C), 2030 South Fifth street. Brick, 1 story, 16x16 feet, slag roof.

Garage, 6403 North Sixth street, \$500. M. E. Monton (O), on premises. E. E. Lloyd (C), Oak Lane. Brick, 1 story, 12x19 feet, shingle roof.

Dwelling, 1923 East Cumberland street, \$1,200. Mrs. E. M. White (O), on premises. James Orr (C), 3532 Kensington avenue. Brick, 3 stories, 12x4 feet, slag roof.

Store and Dwelling, 1009 Girard avenue, \$1,750. L. Weiss (O), on premises. S. Schultz Co., Inc. (C), 3030 North Sixth street. New bulks and alterations.

Boiler House, Stockley and Westmoreland, \$2,700. Plutida Dyeing Co. (O), 6721 Germantown avenue. The Driscoll Co. (O), Stock Exchange. Brick, 1 story, 25x26 feet, slag roof.

Garage, 1249 East Columbia avenue, \$1,586. Charles Monaghan (O). Thomas Kennedy & Son (C), 6742 North Broad street. Brick, 1 story, 16x22 feet and 28x46 feet, slag roof.

Proposals

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INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 15, 1917.—Sealed proposals will be opened in this office at 3 P. M., September 17, 1917, for the construction complete of two additional dolphins and the furnishing and installing complete of thirty-two spring buffers at the wharf of the Quarantine Station at Tampa Bay, Florida. Drawings and specifications may be obtained from the Custodian at Tampa Bay, Florida, or at this office, in the discretion of the Acting Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

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Adolph Christensen.....1433 Brown st., Phila.

Builders.

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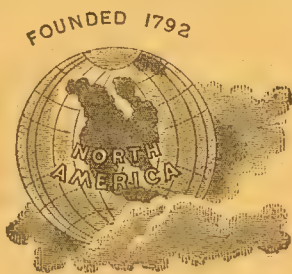
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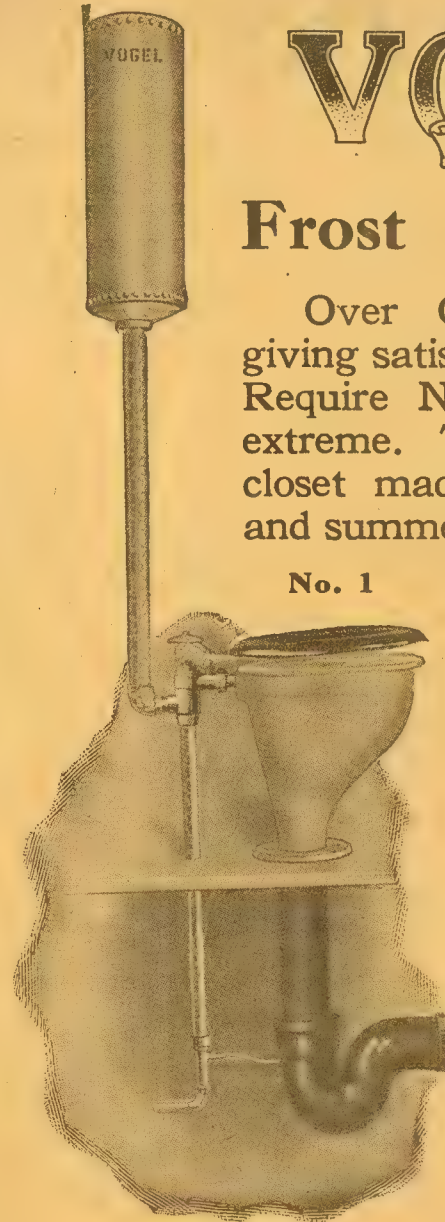
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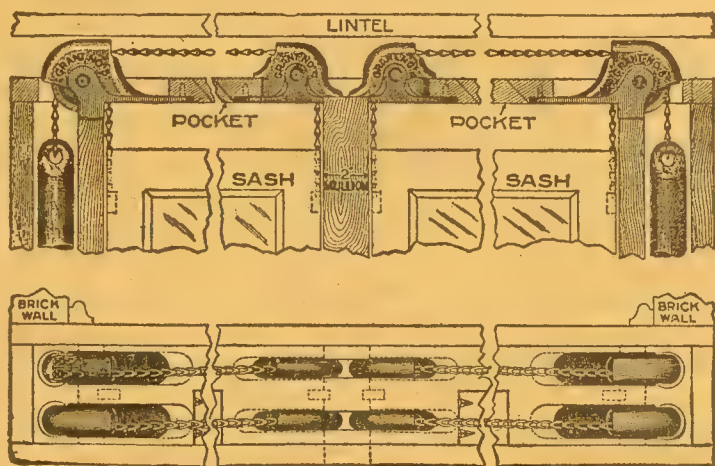
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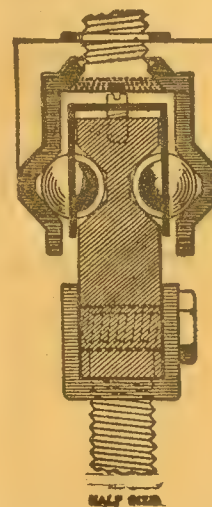
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Vol. XXXII., No. 36
September 5, 1917

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CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

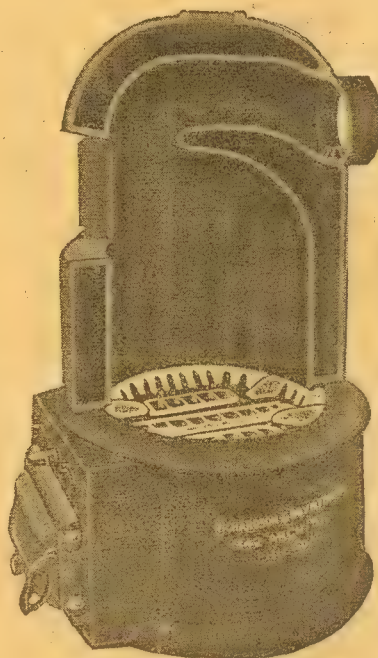
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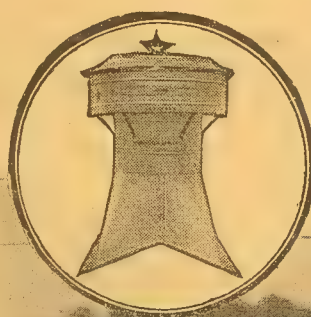
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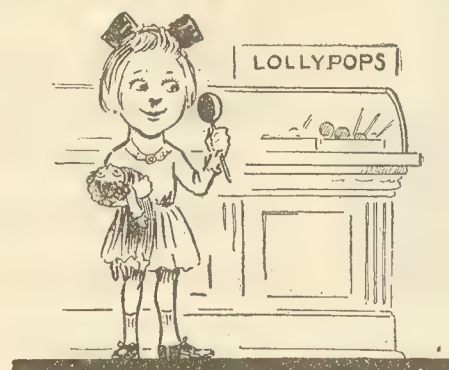
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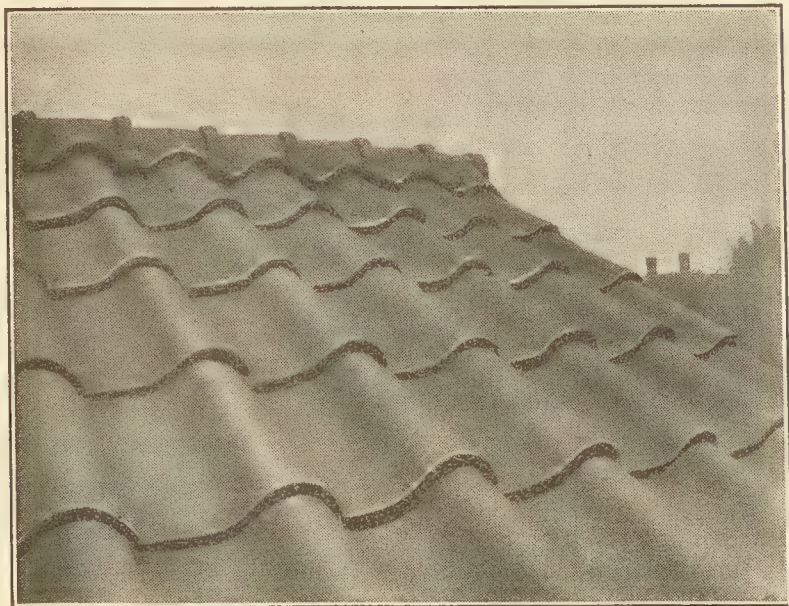
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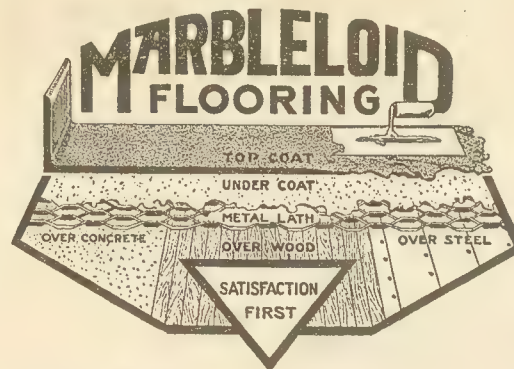
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Devoted to the Advancement of American Architecture, Structural

VOLUME XXXII

Number 36

Engineering and the Building Trades

PHILADELPHIA

September 5, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide

PUBLISHED WEEKLY

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As The Editor Sees It



WE were not a little amused to find the appended reference in the *Philadelphia Press*, to a matter of trade interest treated at some length in a recent number of THE GUIDE.

"The Master Builders' Exchange is up in arms over a provision in an ordinance approved by the Mayor in July, governing the placing of building materials upon the streets while building operations are in progress," says the *Philadelphia Press* of Tuesday, August 14.

"After re-enacting many of the provisions of existing ordinances, the paragraph to which exception is taken comes in. This provides that no permit may be issued for the placing of building material upon the streets within the section bounded by Spring Garden, Fifth and Green streets, and South street, between the Delaware and Schuylkill Rivers, nor on Broad street, between Lehigh and Washington avenues.

"*News of the passage of such an ordinance first reached the builders through a notice from the Police Department, served upon individual members a few days since.* This was a subject of consideration at the meeting of the Exchange directors yesterday, and was referred to the Committee on Legislation with instructions to report what may be done toward securing the repeal of the provision objected to.

"After the meeting, members of the board said that the enforcement of the

clause objected to would not only add about twenty per cent. to the cost of a building, but would also greatly hamper construction and delay completion. Under this ordinance no new material may be piled in the street in front of the building under construction, and no more than can be used in a day may be delivered anywhere except within the lines of the building under construction.

"This, it was said, means that provision must not only be made for the receipt and storage of material within building lines, but that mortar beds must also be arranged for within those lines."

* * *

THE amusing feature of this *Press* paragraph is the artless statement that "*news of the passage of such an ordinance first reached the builders through a notice from the police department.*"

News of the passage of the ordinance first reached the builders, the architects, the Master Builders' Exchange, and about everybody else in any way interested, through the article in THE GUIDE directing attention to the ordinance. The ordinance was introduced into Councils, acted upon and approved by the Mayor, without coming to the knowledge of anybody in the trade and was dug up out of a mass of similar legislation by the Editor of THE GUIDE, who devoted three pages of THE GUIDE and an editorial paragraph to bring it to the

attention of those most directly concerned.

* * *

EVERY builder in Philadelphia knows that it was THE GUIDE that brought the matter to trade notice. Every member of the Builders' Exchange knows that credit belongs to THE GUIDE. Every architect in Philadelphia is aware that it was THE GUIDE that brought the ordinance to general observation and that THE GUIDE did so weeks in advance of the notice given it by the *Press*, the other dailies and such mediums as the *Exchange Bulletin*.

THE GUIDE doesn't look for nor does it expect credit from the daily newspapers who make a regular practice of stealing its building news, but it does object most strenuously to the statement that the builders of Philadelphia, ninety per cent. of whom are paid subscribers to THE GUIDE, had to wait for police notice to get word of the passage of the ordinance. That statement is a wholly gratuitous misrepresentation.

* * *

THE ordinance relating to building material on the public highways was printed in full in THE GUIDE on August 1st. It did not appear in the *Press*, nor in the *Exchange Bulletin* until nearly a month later. Facts are not easy to get away with.

* * *

TO what extent architecture per se should be sacrificed to the interior requirements of the "home" is

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not a new subject. Endless reams have been written upon it. An article, under the caption "Domestic Architecture," in the August number of the *Architect and Engineer of California*, marshals the familiar arguments in a common-sense vein that adds greatly to their effectiveness. After sharply criticizing the mediocrity of the average operative dwelling, the writer, Kenneth McDonald, Jr., a well-known Pacific Coast architect, goes on to say:

"Some of the houses put up by builders, however, are at least habitable, which is more than can be said of some of the houses built by architects. The builder never puts the main bedroom where it does not receive the morning sun. In fact, the builder makes few mistakes which hurt the convenience of the house, simply because he has to sell it.

"If some of the architects would go through the houses put up by builders, and would add their experience and training to what they find, there is no doubt the result would be good. Most architects do not listen to the suggestions of the women who manage the house. They do not place enough importance on the position of the bath rooms on the second floor, and the kitchen, laundry, etc. The majority of them make the mistake of permitting some architectural motive to dominate the plan, when in reality the architectural motive which is used should be the result of the plan. In other words, the exterior of a residence should express the interior arrangement. There should be no doubt in the minds of those who look at the house that certain tall, long windows open into a spacious living room or music room. The observer should also feel certain that other rooms more modestly placed are used for sleeping quarters.

"The style of architecture employed in various locations should be first influenced by the character of its occupant. It should express his or her tastes; whether they lead an active social life, or whether their pleasures consist in a quiet home existence among their children. It is reasonable to presume that those who take an active part in the social life of the community and give entertainments on a large scale, prefer a house which represents their wealth and position in the community. Those of more modest means, who usually have larger families, should be provided with simple, comfortable rooms, ample sleeping porches, and plenty of fresh air.

* * *

ELABORATE interior furnishings and finish should be avoided, as it merely curtails the pleasure of the youngsters and makes a continual battle necessary between them and their parents in order to protect the house. To

look for comfort instead of ostentation, should be their motto.

"The English country house represents the best that is known in domestic architecture, simply because it is the outgrowth of the needs of a constantly increasing family. Good material in the form of heavy masonry is used, and as generation after generation lives in the house, each makes its own improvement and addition, according to its needs. If a certain side of the house commands a beautiful view, and is not subject to the rougher weather, the living room naturally finds its ultimate location there. The original living room becomes devoted to other uses of minor importance.

"When bedrooms are added, they are placed where experience has taught the occupants that they will receive the best exposure. When the garden is added to the house it is on the sheltered sunny side. In fact, it is in just such a manner that all residences should be built. Far be it from us Americans to take so much time. We would be able to sell and move out of fifty houses in the length of time it has taken to produce one of the old English homesteads, with its garden of mature and well developed plants, and that perfect charm and repose which only thought and care and respect for the beautiful will give."

* * *

ONE of the difficulties with which the architect has to contend is the expectation, common among traveled clients, that he should be able to plan in a few weeks a type of country home equal to homes of the same type abroad, the realization of which has been in some cases the development of centuries.

* * *

ONE of the unique co-operative apartment houses of which New York City could boast for many years past has been projected for erection on Park avenue, extending from Fifty-first to Fifty-second street. It will embody features that have grown largely from the regulations of the new building code and the necessity for a solution of the servant and living problems, which, it may be remarked parenthetically, are more acute than ever. The plans, which have been prepared by Messrs. Starrett & Van Vleck, call for a structure nineteen stories high and containing duplex apartments ranging from twenty-two rooms or more down to two rooms with bath and pantry.

Above the 150-ft. building line the structure is to terrace back 15 ft. at every two stories, so that the occupants of the duplex apartments above the 150-ft. line will have gardens, pergolas, loggias and out-of-door sleeping porches, which will belong to them exclusively.

The building will not only be an apartment house, but a private dwelling and hotel combined, containing all the features which have made the Hotel des Artistes in West Sixty-seventh street—the artist builders' last operation—one of the most successful buildings of the year. There will be a hotel dining room, a ballroom, palm garden, swimming pools, squash courts, and other features for the pleasure comfort and health of the tenants of the building.

What is unquestionably the distinctive feature is the double service in the matter of cooking. A great kitchen will extend around the rear part of the entire second floor and be connected with every apartment, large and small, by fast-moving electric dumbwaiters. The corporation which will run the hotel and the building will be subsidized by a fixed annual stipend to cook for all the occupants of the building. The tenants may use this service or their own individual kitchens, or both, according to preference. The plan is intended to simplify the servant problem, making it possible to have an elaborate apartment and at the same time be independent of the aggravating servant problem. Another feature will be the service bureau, in charge of a competent matron, where servants in proper livery may be hired by the hour for any purpose. At the very top of the building there will be accommodations for forty specialized servants of this type.

The total cost of the building and the land upon which it will rest is estimated at about \$3,600,000. People may buy their apartments in the co-operative structure from \$15,000 up to \$120,000, according to size and location.

* * *

THE holding of reinforcing bars in proper position while concrete is being placed is a matter which merits the utmost attention. The labors of the best designer and detailer can be set at naught by the carelessness of those in charge of the construction of reinforced concrete structures, while placing steel and concrete.

A designer spends many days designing and detailing a complicated structure, the strength of which can be greatly impaired by comparatively slight displacement of the reinforcement at critical sections. Much time is spent in designing and detailing the reinforcement for a structure, and the all-important matter of getting and keeping the bars in correct position is disposed of by a single note, such as the following: "All reinforcement to be bent and placed as shown on plans and to be securely fastened or tied to prevent displacement during pouring of concrete and to insure proper position of reinforcement in the finished structure." It is left to the dis-

cretion of the construction foreman to devise a means of keeping the bars in position, and as a result the strength of the structure may depend on whether the foreman thoroughly understands his business or not.

This is neither good practice nor economy. The method and means of supporting reinforced bars should be clearly indicated on the plans, since they are as important details as the location of

bends of bars and stirrups. It is just as important to show the supporting bars, supporting blocks and clips, and the spacing bars as it is to show the main reinforcement in detail. Before the structure can be built it is necessary for someone to devise a means for keeping bars in position during construction, and, as a general rule, a competent designer is more capable of handling these details to good advantage than anyone else.

EDITORIAL NOTES

The Department of Industrial Education, University of Chicago, and the Extension Division of the Portland Cement Association are co-operating in providing a summer course in concrete, which offers a series of lectures by engineers and teachers thoroughly familiar with the cement industry and the subject of concrete as taught in manual training and vocational courses. The aim of the course is to provide practical and complete information for those who wish to learn the theory and fundamentals of concreting. The lectures—twelve in all—afford instruction in the various phases of concreting practice and provide demonstrations of the proper methods.

* * *

Complete statistics covering the Portland cement industry in 1916 show that the production, 11,521,198 barrels, was second only to that of the record year 1913, when 92,097,131 barrels were manufactured. The shipments in 1916 were 94,592,296 barrels, valued at \$100,014,882—a new record of valuation. Higher prices for cement prevailed throughout the United States in 1916, except at a few places where top prices were realized in 1915. The average factory price per barrel in bulk at mills was \$1.058, compared with \$0.860 in 1915, an increase of 19.8 cents, or 23 per cent. The combined production of natural and puzzolan cements in 1916 was 842,137 barrels, valued at \$430,874, compared with 793,541 barrels, valued at \$398,428, in 1915.

* * *

According to Philadelphia paint manufacturers, the Paint Manufacturers' Association of the United States has under way a series of successful tests with a new fire-retardant paint and is co-operating with the National Lumber Manufacturers' Association for the advocacy of this brand of paint. The label has been trademarked by the paint association, and will be used only by the manufacturers licensed to make the fire-resistant paint under the new formula. Other organizations helping in the problem of reducing financial losses by fire also are interested in the new product.

* * *

Preparatory to proceeding with the repairs to the Philadelphia City Hall tower, Director Datesman appointed Thomas Atkinson, a rigger, at \$8 per day. Three other riggers have been employed at \$6 per day. The supervi-

sion of the work has been placed in the hands of Robert Atkinson, a steeplejack, who is to receive \$500 a month for his services. This is the first attempt to be made to repair the tower in seven years.

* * *

At a recent annual meeting of the Builders' Exchange of Atlanta, the following officials were elected for 1917-1918: President, P. C. Gilham; first vice-president, A. A. Craig; second vice-president, D. A. Farrell; treasurer, R. M. Walker; secretary, Dan Carey.

* * *

Among those who have studied the present building situation it is generally conceded that the stagnation of building endeavor at this time is mainly due to the high cost of construction brought about by the excessive prices that have been charged for essential materials. A reduction in the cost of construction is possible through a recession of material prices to a level that owners feel will be consistent with building at a fair and reasonable margin of profit. At the present scale of commodity prices all building is accomplished in fear that profits will be jeopardized at any moment by the further increases, and building other than that absolutely essential to the abnormal industrial conditions that now maintain, is being held in abeyance until prices return to a more normal basis.

* * *

William Stampleman, formerly with the Universal Tool and Die Works, is now secretary of the Ever Ready Machine and Tool Works, 180-182 Worth street, New York City.

* * *

Speculative building is the one branch of building activity that has suffered more than any other from the prevalent high cost of construction. The erection of tenement houses, high class apartments, small dwellings for one and two families and loft and store buildings for manufacturing and commercial occupancy has practically ceased since material prices advanced to such an abnormal figure. Now that there have been reductions in the prices of so many commodities and other recessions in prospect by virtue of reduced operating costs and the consequent possibility of building at a reasonable profit, there is an expectation that more building of a speculative character will be started, and that general construction will be stimulated.

Robert W. Adams, manager of the Providence, R. I., office of the General Electric Co., was elected president of the Providence Engineering Society at its recent annual meeting.

* * *

The following general letter, addressed to all employees of Berry Bros., well-known manufacturers of varnishes, has been received by the entire working force of the company with great enthusiasm, and the employees feel extremely grateful to President O. S. Goan for his beneficent interest in their behalf. The plan might well be adopted by other large corporations:

"By the unanimous action of our Board of Directors, the company has arranged for what is known as 'group life insurance,' covering all of its employees, upon the following conditions:

"Any employee, no matter where located, who has been in the service of the company for six months, thereby establishing permanency of employment, is insured for \$500.

"Any employee who has been in the service of the company for one year and six months is insured for \$600.

"Additional insurance will apply for each additional year of employment until a maximum of \$1,000 has been reached.

"Under this arrangement, therefore, all those employees who have been in the service of the company five years and six months are insured for \$1,000.

"You, therefore, are requested to fill in the enclosed blank and return the same promptly.

"As soon as possible after all of these forms have been received, a certificate of insurance will be sent to each employee, free of any expense whatever, and the same will remain in effect so long as the employment continues. The general policy is contracted for and the insurance is now in effect.

"We wish to add that we are taking this action as an evidence of our appreciation of the faithful service rendered by a large number of employees for many years past, and our desire to encourage younger employees in the belief that their faithful efforts will be duly appreciated and properly recognized.

"Yours very truly,

"BERRY BROTHERS."

* * *

The Whitehall Construction Company will pay the City of Philadelphia \$5,100 for the privilege of demolishing the former residence of Senator James McNichol, Rudolph Blankenburg, former Mayor, and many other structures on the west side of Logan Square, and on Twentieth street, between Race and the Parkway. A contract for the work was let to the concern by the Fairmount Park Commission. Emolition of the buildings does not come under the Parkway plans, but under the Logan Square extension plan. Philadelphia paid almost a million dollars for the structures which are to come down, included among them being some of the city's finest residences. Work on the contract will be started at once, and it is expected that the entire section will be razed by November 1.

Leading contracting builders in Augusta, Ga., have recently perfected an organization in the shape of a Builders' Exchange, with the following officers: President, J. T. Lawrence; vice-president, L. E. Palmer; treasurer, L. M. Whaley; secretary, C. H. Van Ormer. The Exchange starts off with a membership of about fifty, but this number is expected to be rapidly augmented. The headquarters are in the Harrison Building, and the idea is to promote friendly relations between all branches of the building trade.

* * *

William W. Norton has been elected secretary of the Builders' and Traders' Exchange of Detroit. He succeeds Charles A. Bowen, who became secretary of the National Lumber Dealers' Association on February 1st, but who has continued his connection with the Detroit Exchange in an advisory capacity, although resigning as active secretary.

* * *

Many manufacturers of structural materials and also the building industry generally, more than welcome the announcement of the President's decision in regard to the fixing of the price of bituminous coal. While it remains uncertain whether the published prices are for the supplies required for Federal consumption exclusively, or will be applicable to private consumers as well, the consensus of opinion among those depending largely upon coal for manufacturing purposes is that the Government will not discriminate, but that all interests probably will be treated on the same basis in regard to the supply of fuel, and the price to be paid.

* * *

The General Electric Company will supply the entire electrical equipment for the Commonwealth Hotel, to be erected on a site in the Times Square district, New York. The power equipment would suffice for 20,000 people. Electrical apparatus for lighting, ventilating, heating, pneumatic tube service, vacuum cleaner system, as well as the operating and controlling devices for kitchen, laundry and refrigerating departments, together with the necessary conduits, cables, wires and lamps, will be supplied.

* * *

For a long time the producers of building commodities have been greatly affected by the prevalent high cost of fuel and the extreme difficulty of obtaining delivery of adequate supplies to operate their factories and plants. There was a demand for finished products that would have kept all manufacturers working to capacity had they been able to obtain the necessary fuel at a reasonable price. The condition that maintained was one of the prime factors in the establishment of the record high prices for structural materials that have now held without a break for nearly a year.

* * *

Building Trades Council of New Brunswick has been organized. It is composed of the plumbers, sheet metal workers, roofers, painters, bricklayers, masons and plasterers, electricians and building laborers with the addition of the carpenters' union. At a recent

election the following officers were elected: Martin Flynn, president; Eugene Fraley, vice-president; Lee Holliday, recording secretary; William Becker, treasurer; William Banker, financial secretary, and George Stoneman, inner guard.

* * *

Practically all producers of building materials and supplies are users of coal in the manufacturing of their commodities, and soft coal in many instances was the type of fuel generally desired, both on account of its lower cost and adaptability. Manufacturers of brick, terra cotta, lime, steel, cement and other fundamental building materials are large users of coal in manufacturing, and the scarcity and high cost have not only been responsible for the high prices being charged, but also for a material curtailment in the amount now

being produced. When it is considered that in the manufacture of Portland cement one pound of coal is consumed in the production of a pound of cement for market, some idea of the total amount of coal necessary for this industry alone can be had. Other industries manufacturing building commodities are users of coal for fuel in proportionate amounts.

* * *

The National Board of Fire Underwriters, 76 William street, New York, is mailing to a list of 66,000 manufacturers of the country a booklet, prepared for the Council of National Defense, of directions for the prevention of fire, particularly in plants working under the abnormal conditions of war time emergency. It has been given the title of "Safeguarding Industry."

RESOLUTIONS ADOPTED BY N. F. P. A. AT ANNUAL MEETING IN WASHINGTON

The National Fire Protection Association assembled in Washington for its twenty-first annual meeting, calls attention to the new and unusual hazards to life and property created throughout America by the world war which demand the utmost vigilance and initiative not only from those in authority but from the private citizen as well. Every individual should consider himself a fire warden of the nation at this critical time and should equip himself to serve his country by safeguarding to the extent of his intelligence and ability every form of natural and created resource. The elimination of waste, at all times the duty of good citizenship, is at this moment our profoundest public and private responsibility.

In its warfare against the needless sacrifice of human lives and property by fire the association advocates the following measures:

1. The adoption by municipalities of the Standard Building Code of the National Board of Fire Underwriters to the end that fire-resistive building construction may be encouraged, the use of inflammable roof coverings prohibited, adequate exit facilities from buildings assured, and interiors so designed and fire-stopped as to make easy the extinguishment of fires therein.

2. The adoption by all states of minimum building requirements for the protection of state and county hospitals, asylums and similar institutions outside city limits and of small communities in which the establishment and enforcement of a building code is impracticable.

3. The enactment by each state of the fire marshal law advocated by the Fire Marshals' Association of North America to the end that official investigation may be made of the causes of all fires, preventable fires may be eliminated by public education, and the crime of arson stamped out.

4. The adoption of the association's suggested ordinance providing for the systematic inspection of all buildings by city fire marshals or local firemen to insure the vigorous

enforcement of rules for cleanliness, good housekeeping, and the maintenance of safe and unobstructed exits, fire-fighting apparatus and other protective devices.

5. The enactment of ordinances similar to that of Cleveland, Ohio, fixing the cost of extinguishing preventable fires upon citizens disregarding fire prevention orders, and a more general legal recognition of the common law principle of personal liability for damage resulting from fires due to carelessness or neglect.

6. The wider general use of the automatic sprinkler as a fire extinguishing agent and life saver and the more general adoption of the fire division wall as an important life saving exit facility.

7. A careful study of the technical surveys of cities made by the engineers of the Committee on Fire Prevention of the National Board of Fire Underwriters covering the items of water supplies, their adequacy and reliability, fire department efficiency, fire alarm systems and conflagration hazards; and of the possibility of co-operation among neighboring cities through mutual aid and the standardization of hose couplings.

8. The adoption of the association's suggested laws and ordinances for state and municipal regulation of the transportation, storage and use of inflammable liquids and explosives.

9. The universal adoption and use of the safety match and legislation prohibiting smoking in all parts of factories, industrial and mercantile buildings except in such fire-proof rooms as may be especially approved for the purpose by fire departments.

10. The education of children and the public generally in careful habits regarding the use of fire.

11. The co-ordination of all these activities, through a central administrative officer or body of the state or city having primary jurisdiction, for the purpose of promoting uniformity of action and efficient co-operation.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Factory (int. alt.), southeast corner of Fourth and Cherry streets, Philadelphia. Architect, private plans. Owner, M. Zifferblatt, 2115 South Eighth street, Philadelphia. Consists of carpenter and mill work, painting, new power plant equipment, electric lighting. Owner will take bids.

Garage, Twenty-second and Summer streets, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Edward M. Flood, Sixteenth and Cherry sts., Philadelphia. Brick, 1 story, 35x75 feet, slag roof, cement floors, steam heating, electric lighting, gasoline storage system. Plans completed. Owner will take bids in a few days.

Residences (2) (alt. and add.), 1904-06 S Fourth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, J. Edelstein, Fourth and Morris sts., Philadelphia. Brick, 3 stories, 16x40 feet each, slag roof, pine floors, hot air heating, electric lighting. Plans completed. Owner is ready for sub-bids.

School (int. alt.), Oak Lane and Twelfth street, Philadelphia. Architect, J. Horace Cook, Nineteenth street, above Chestnut street, Philadelphia. Owners, Board of Education, Wm. Dick, secretary, Nineteenth above Chestnut street. Brick work, painting, partitions and interior alterations. Owners taking bids, due September 6th. Standard Const. Co., 1713 Sansom street; George Dobbin & Co., 414 South Forty-first street; E. C. Durell, 1713 North Twenty-fourth street; J. H. Jordan, Thirty-first and Oxford streets, and Warren, Moore & Co., Colonial Trust Building, Philadelphia, are figuring.

School (alt. and add.), Fifty-fifth street, between Chestnut and Ludlow streets. Architect, J. Horace Cook, Nineteenth street, above Chestnut street. Owners, Board of Education, Wm. Dick, secretary, Nineteenth street, above Chestnut street. Reinforced concrete, brick and stone, 3 stories, 75x87 feet, slate and tile roof, concrete, maple and composition roof, hollow tile, metal lath, tile and marble work, fire and hollow metal doors, iron stairs, ornamental iron work, roof ventilators, waterproofing, dampproofing, wire work (heating, plumbing and lighting reserved). Owners taking bids, due September 6th. Standard Const. Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street, and Warren, Moore & Co., Colonial Trust Building, Philadelphia, are figuring.

Residence, Queen Lane Manor, Philadelphia, \$20,000. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Philadelphia. Owner, Geo. C. Shane, 2815 Midvale avenue, Philadelphia. Hollow tile and plaster, 2 stories, 60x30 feet and 20x20 feet, roof undecided, hot air heating, electric lighting, tile work, hardwood floors. Plans in progress.

Residence, Queen Lane Manor, Philadelphia, \$6,500. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Philadelphia. Owner,

Charles E. Peyton, 429 West Coulter street, Germantown. Hollow tile and plaster, 2 stories, 25x40 feet. Plans in progress.

Residence (alt. and add.), 1422 Poplar st., Philadelphia. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, W. M. Bunn, 1420 Poplar street, Philadelphia. Brick (bath room additions), general interior alterations, slag roof, hot air heating, electric lighting, oak floors, plumbing. Plans completed. Architect ready for bids.

Residences (16), Store (1), 4901-29 North Hutchinson street, \$37,900. Architect, private plans. Owner, W. Fischer, 3621 North Fifth street, Philadelphia. Brick and stone, 2 stories, 15x31 feet, slag roof, pine floors, hot water heating. Work about to be started.

Stores and Apartments (2), 249-51 South Thirty-seventh street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert Gold, care of architect. Brick, 2 stories, 15x56 feet each, slag or composition roof, pine, hardwood and cement floors, steam heating, electric lighting, tile and marble work, metal bulks. Plans in progress. Architect ready for bids in a week.

Stores and Apartments (alt. and add.), corner of Laurens avenue and Queen Lane, Philadelphia. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owner's name withheld. Brick, 1 story and basement, 46x85 feet, slag and slate roof, steam heating, electric lighting, tile and marble work, cement, composition and pine floors, metal lath. Revised plans completed. Architect taking sub-bids.

Warehouse (add.), Broad and Washington avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and reinforced concrete, 7 stories, 131x91 feet. prepared roof, concrete floors, hollow tile, rolled steel sash, fire doors, iron stairs, ornamental iron work, safety treads, metal window guards, waterproofing (heating, lighting and elevators reserved). Owners have received bids.

Warehouse, Eightieth street and Island Road, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner's name withheld. Brick and reinforced concrete, 1 story, 46x275 feet, slag roof, cement and maple floors (lighting and heating reserved), rolled steel sash, fire doors, metal window guards, ornamental iron work. Architect has received bids.

Nurses' Home (add.), Fifteenth street, above Race street, Philadelphia. Architect, private plans. Owners, Hahnemann Hospital, on premises. Brick and reinforced concrete, fireproof, 6 stories and basement, 38x21 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, cement

and pine floors, metal lath, metal weatherstrips, dampproofing. Owners have received bids.

Store and Residence (alt. and add.), 808 South Second street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Harry Berman, on premises. Brick, 3 stories, 20x70 feet; addition, 2 stories, 20x30 feet, slag roof, pine floors, hot water heating, electric lighting, tile and marble work, metal lath. Plans completed. Owner taking bids. Bierns & Cylinder, 521 Mifflin street, are figuring.

Bank, 9 South Fifty-second street, Philadelphia, \$50,000. Architects, Penckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Guarantee Trust and Safe Deposit Co., 316 Chestnut street. Limestone and granite, bronze trimmings, 1 story, 15x67 feet, slag roof, hot water heating, electric lighting, marble floors. Plans in progress. Architects will take bids in two weeks.

Stores and Residences (2) and Garages (2), 1306-S South street. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Bierns & Cylinder, 521 Mifflin street, Philadelphia. Brick, 3 stories, 21x75 feet, and 1 story, 21x40 feet, slag roof, hot air heating, electric lighting, tile and marble work, metal bulks, cement and pine floors, metal lath, metal ceilings. Plans completed. Owners ready for sub-bids.

Stores (2) (alt. and add.), 4330-32 Germantown avenue. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owner, David Weiss, 4300 Germantown avenue. Brick, 1 story rear addition, 14x16 feet, slag roof, pine floors, new fronts, tile and marble work, metal bulks (electric work reserved by owner). Owner taking bids. M. Yellin, 712 North Franklin street, is figuring.

Nurses' Home (add.), Fifteenth street, above Race street, Philadelphia. Architect, private plans. Owners, Hahnemann Hospital, on premises. Brick and reinforced concrete, fireproof, 6 stories and basement, 38x21 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, cement and pine floors, metal lath, metal weatherstrips, dampproofing.

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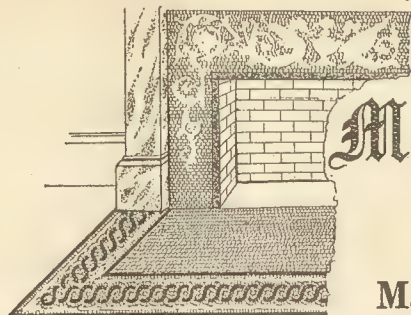
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Dwelling (alt. and add.), 26 N. Fifty-second street, Philadelphia, \$5,000. Architect, private plans. Owner, John Bartholomae, on premises. Brick, 3 stories (add.), 12x16 feet, slag roof, pine floors, steam heating, electric lighting, metal ceilings. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street, Philadelphia.

Residence, Eleventh and Cheltenham avenue, Philadelphia, \$4,500. Architect, private plans. Owner, Harry Burson, Sixty-fifth and Park avenues, Philadelphia. Stone, hollow tile and plaster, 2 stories, 23x32 feet, slate roof, pine floors, hot water heating, electric lighting. Contract awarded to Arthur V. Turner, 6228 Camac street, Philadelphia.

Store (alt.), 2837 Girard avenue, Philadelphia, \$2,000. Architect, private plans. Owner, Miss Emma Uhl, 2836 Girard avenue, Philadelphia. Brick, new front, hardwood and pine floors, electric lighting, tile and marble work, metal bulks. Contract awarded to Geo Kessler Cont. Co., Drexel Building, Philadelphia.

Residence (alt. and add.), 322 South Sixteenth street, Philadelphia, \$1,400. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Dr. Charles B. Worden, on premises. Brick, third story rear addition, 12x14 feet, slag roof, pine floors, electric lighting, mill work, plastering and plumbing. Contract awarded to Milton S. Grawl, Bulletin Building, Philadelphia.

Rectory (alt. and add.), 7942-44 Tacony st., \$4,000. Architect, private plans. Owners, St. Dominic's R. C. Church, care of Rev. L. J. Wall, on premises. Stone, 3 stories, slag roof, hot water heating, electric lighting, tile work, pine and cement floors, metal lath. Contract

awarded to D. W. O'Dea, 5227 North Fifth street, Philadelphia.

Opera House (int. alt.), Tenth and Chestnut streets, Philadelphia, \$25,000. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owners, University of Pennsylvania, 400 Chestnut street, Philadelphia. Painting, new brick walls, interior alterations, iron work, cement floors. Contract awarded to George & Borst, 277 South Eleventh street, Philadelphia.

Garage and Service Station, 2120-22 Fairmount avenue, \$11,000. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Wm. Myers, Bell Telephone Co., Thirteenth and Arch streets. Brick, 1 story, 40x165 feet, slag roof, cement floors, plumbing, steam heating, electric lighting (gasoline storage system reserved), hollow metal skylights. Contract awarded to Herman Voigt, 1251 N. Twenty-eighth street, Philadelphia.

Residence (alt. and add.), 3113 Midvale avenue, Philadelphia, \$600. Architect, Samuel D. Hawley, 2nd, Queen Lane Manor, Philadelphia. Owner, Walter D. Kimball, Perry Building, Philadelphia. Brick, 2½ stories, porch additions, slag and tin roofs, pine floors, electric lighting. Contract awarded to Stokes Bros., 6723 Musgrave street, Philadelphia.

The business man who grudges a commission to an advertising agent who thinks "he can do it himself" is usually about as intelligent as he would be if he grudged the commission of the architect and decided to build his store for himself.

LET ENGINEERING STUDENTS FINISH THEIR COURSES.

There is a steadily growing feeling that engineering classes should not be broken up because of war. We are glad to note that at least two engineering periodicals voice that sentiment.

Chancellor Brown, of New York University, has advised engineering and medical students to finish their courses, the engineers to take military tactics as part of their curriculum.

There are about 10,000,000 men between the ages of 21 and 30, of whom less than 17,000 are taking courses in engineering colleges, or one in 600. About an equal number of engineering students are below the age of 21. As operators of machine guns or users of rifles, these partly trained engineers would be no more effective than men entirely without engineering training. As graduate engineers, however, they will be vastly more useful to the nation.

If the war is to be short, these undergraduate engineers will be of little or no use as engineers in the war. If it is to be long, their usefulness after graduation will be great, particularly if during the remainder of their course at college they are required to study the principles of military engineering.

Already many engineering students have enlisted in the officers' reserve corps, and are not only continuing their regular engineering studies, but are studying military engineering. In addition they are spending their recreation hours in physical training under military instructors. Engineering students at Yale were among the first to volunteer for this strenuous double duty.—"Engineering-Contracting."

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Of course it is insured against fire. But how about the roof? Is your investment there insured?

If you cover your building with a Barrett Specification Roof you will get such insurance in the shape of a 20-Year Surety Bond.

Our experience has proved that a roof laid strictly according to The Barrett Specification will last much longer than twenty years without repairs of any kind, and our new plan of issuing the 20-Year Surety Bond Guaranty gives owners the benefit of that experience.

Here is our offer:

On all roofs of 50 squares or more, in all towns of 25,000 or more throughout the United States and Canada, and in smaller towns where our Inspection

A Copy of The Barrett 20-Year Specification, with roofing diagrams, sent free on request.

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Service is available, we will give a 20-Year Surety Bond Guaranty, provided the roof be laid strictly according to The Barrett Specification of May 1, 1916, and by a roofer approved by us.

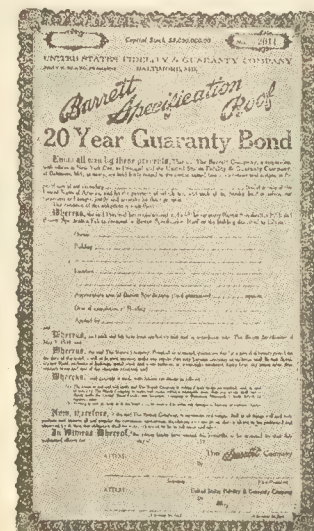
This bond exempts the owner from all expenses of maintenance and repairs for a period of twenty years.

We claim only the right to have an inspector on the roof during construction to insure strict compliance with the specification.

The risk is ours, the gain is yours.

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PENNSYLVANIA Construction News

Church, Ambler, Pa. Architects, Edw. F. Durang & Son, 1220 Locust street, Philadelphia. Owners, Italian Mission Church, care of Rev. Antonio Garritano, 308 West Third street, Chester, Pa. Stone, 1 story and basement, 60x80 feet, asbestos roof, pine and cement floors, steam heating, electric lighting. Revised plans completed. Owners ready for bids.

Garage, Port Washington, Pa. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Caroline Sinkler, 1604 Locust street, Philadelphia. Frame, 2 stories, 35x21 feet, shingle roof, cement and pine floors. Architect taking bids, due as soon as possible. H. H. Burrell, 206 South Quince street, is figuring (only bidder).

Residence, Merion, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner's name withheld. Stone, frame and plaster, 2½ stories, 40x26 feet; wing, 19x12 feet, shingle roof, hot water heating, electric lighting, tile work, oak floors. Architect taking bids, due as soon as possible. Frank H. Mahan, Ardmore, Pa., is figuring (only bidder).

Residence (add.), Ashland, Pa. Architect, Harry Maurer, Baer Building, Reading, Pa. Owner, M. Frank Buck, Ashland, Pa. Stone, 1 story, tin roof, tile floors, electric lighting, tile work, ornamental iron work. Owner taking bids, due September 6th.

Garage and Hall Building, Eighth and Bingham streets, Reading, Pa. Architect, G. C. Freeman, Reading, Pa. Owner, Michael Wolicka, on premises. Brick, 2 stories, 65x50 feet, slag roof, heating not decided, wood floors, electric lighting, metal lath, gasoline storage system. Architect taking bids, due as soon as possible. John H. Dowd, 345 South Fourth street; Wm. R. Fromm, 706 North Thirtieth street; Charles Schom, Geo. Koch, all of Reading, and Mr. Rich, West Reading, Pa., are figuring.

Apartment House and Garage, Penn and Concord avenues, Chester, Pa. Architect, Clarence W. Brazier, Crozer Building, Chester, Pa. Owner, Thomas K. Langhead, Eighth and Penn streets, Chester, Pa. Hollow tile and stucco, 2 stories and basement, 17x57 feet, slag roof, steam heating, electric lighting, pine floors. Owner taking bids.

Store (alt.), 134 West Third street, Chester, Pa. Architect, Maurice Golden, Crozer Building, Chester, Pa. Owners, Baron Bros., on premises. Consists of general interior and exterior alterations, 1 story, flush bulks, ornamental iron work. Plans completed.

Residence, Valley Forge, Pa. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, Mrs. John Lunkenheimer, 5121 Hazel avenue, Philadelphia. Stone and frame, 2 stories, 35x35 feet, shingle roof, hot air heating, electric lighting, pine floors. Architects taking bids, due in ten days. J. P. Lamborn, Berwyn, Pa.; Wm. J. McCone & Son, Devon, Pa.; Wm. H. Parلمان, Devon, Pa., and J. W. Worrlow, Media, Pa., are figuring.

Residence, Bells Mill Road, Chestnut Hill, Pa., \$25,000. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Mrs. John P. Keator, 218 West Walnut Lane. Stone and stucco, 1½ stories, 40x73 feet and 20x30 feet, slate roof, hardwood floors (hot water heating, plumbing and electric work reserved), tile work. Architect taking bids, due September 5th. Wm. H. Eddleman & Sons, 453 Green Lane, Roxborough, Pa., are figuring (only bidders).

Punch Shop, Chester, Pa. Architect, private plans. Owners, Chester Shipbuilding Co., Finance Building, Philadelphia. Brick, steel and corrugated iron, 2 stories, 300,000 square feet, composition roof, cement floors, rolled steel sash. Owners taking sub-bids.

Post Office (completion), Harrisburg, Pa. Architect, private plans. Owners, U. S. Government, Treasury Department, Washington, D. C. Brick and stone, 3 stories, slate roof, steam heating, electric lighting. Low bidders: August Wildman, Harrisburg, Pa., \$53,200; Gohl & Braw, Harrisburg, Pa., \$59,198; J. L. Menough & Sons, York, Pa., \$69,875.

Silk Mill, Nanticoke, Pa. Architect not selected. Owners, Duplan Silk Mills, Hazleton, Pa. Work contemplated.

School (add.), Archbald, Pa., \$10,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board of Archbald, Pa. Frame, 2 stories and basement, 40x55 feet, shingle roof, pine floors (indirect heating, electric lighting and plumbing reserved). Owners taking bids.

School, Foster Township, Pa. Architect, Owen McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, School Board, Foster Township, Pa. Brick or frame, 1 story (4 rooms), slate roof, pine floors, steam heating. Plans completed. Owners ready for bids.

Pay Office, Hazleton, Pa., \$3,000. Architect, George F. Schroeder, Weitzkorn Building, Wilkes-Barre, Pa. Owners, Cranberry Creek Coal Co., Hazleton, Pa. Brick and stucco, 1 story, 40x12 feet, slag roof, pine floors, elec-

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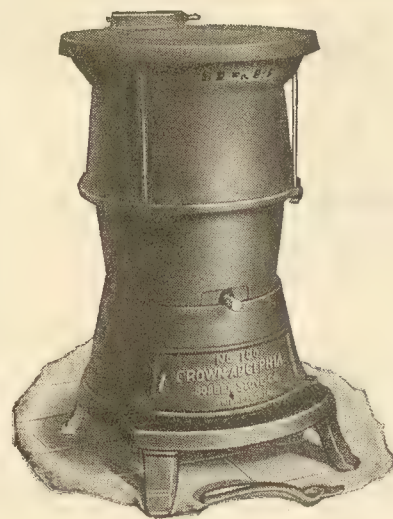
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erie lighting, rolled steel skylights. Plans in progress.

Apartment House (alt. and add.), Ashley, Pa., \$5,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Lyman Scarfoss, Ashley, Pa. Frame, 2 stories, shingle roof, hot air heating, electric lighting. Plans in progress.

Residence, Liberty street, Newton, Pa., near Ashley). Architect, James Boyle, Bennett Building, Wilkes-Barre, Pa. Owner, Frank Rowe, Newton, Pa. Frame, 2½ stories, slate roof, steam heating, electric lighting, pine floors. Owner taking bids.

Store and Apartments (alt.), 41 South Washington street, Wilkes-Barre, Pa., \$9,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Katharine W. Mayoek, on premises. Brick, 3 stories, slag roof, city steam heating, electric lighting, tile and marble work, pine floors (plumbing reserved). Plans in progress. Architect will be ready for bids in a week.

School (add.), Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Plains, Plains, Pa. Frame, 1 story, 30x50 feet, slag roof, pine floors. Plans in progress.

Residence, Easton, Pa., \$20,000. Architect, Edward T. Boggs, 136 South Fourth street, Philadelphia. Owner, Wm. R. Haytock, Easton, Pa. Stone, 2½ stories, 45x50 feet. Plans in progress. Architect ready for bids in two weeks.

High School. Eighth and Fulton streets, Chester, Pa., \$400,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, City of Chester, Board of Education, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone, 4 stories and basement, 240x115 feet, slate and J-M or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamain doors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work, ventilating and furniture reserved). Owners ready for bids. due September 21st. Plans may be obtained at Architect's office.

Convent, Cherry and Webster streets, Shamokin, Pa. Architect, Paul Monaghan, Drexel Building, Philadelphia. Owners, St. Mary of the Assumption Parish, care of Rev. G. J. Kric, Easton, Pa. Frame, concrete founda-

tions, 2 stories and basement, 24x48 feet, slate roof, cement and pine floors, electric lighting (heating reserved). Architect taking bids, due in ten days. Davis Lumber Co., Shamokin Lumber Co., both of Shamokin, Pa.; Mt. Carmel Lumber Co., Mt. Carmel, Pa., and Gordon Nagle, Pottsville, Pa., are figuring.

School, Ashley, Pa., \$80,000. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, School Board of Ashley, care of Mr. Messinger, secretary, Ashley, Pa. Brick veneer, 2 stories, 18x75 feet, slag roof, pine floors (steam heating, plumbing and electric work reserved). Owner ready for bids.

Office Building, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maccarr Truck Co., Scranton, Pa. Brick and concrete, 1 story, 40x65 feet, slag roof, pine floors (steam heating, electric lighting and plumbing reserved), hollow tile, metal lath, rolled steel sash, metal ceilings. Contract awarded to Stender Bros., Providence Road and Albright avenue, Scranton, Pa.

Store Front, Wilkes-Barre, Pa., \$7,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Wilkes-Barre Dry Goods Co., Wilkes-Barre, Pa. One story, 23x30 feet, oak floors, electric lighting, tile and marble work, metal bulks. Contract awarded to Walburn & Barney, Wilkes-Barre, Pa.

Residence (alt. and add), Old Lancaster Road, Overbrook, Pa., \$1,200. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owner, John J. Gallagher, on premises. Frame and stucco, second story addition, 14x8 feet,

Double Residences (3), Ardmore Park, Pa., \$5,800 each. Architect, John C. Norton, Ardmore, Pa. Owner's name withheld. Brick, 2 stories, 16x40 feet, Carey roof, pine floors, hot water heating, combination lighting. Architect taking bids. Pennsylvania Company of Engineers, 24 East Lancaster avenue, Ardmore, Pa., are figuring.

Residence, Ardmore, Pa., \$10,000. Architect, John C. Norton, Ardmore, Pa. Owners, D. M. & J. H. Fraser, Ardmore, Pa. Stone, 3 stories, 25x34 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Owners are sub-letting.

PENNSYLVANIA

Contracts Awarded

tile roof, tile floors, plumbing. Contract awarded to Alan G. Smith, 2125 North Sixty-third street, Philadelphia.

Residence, Reading, Pa. Architects, James H. Schank and P. F. McAllyister, associated, 26 Lippy Building, Seattle, Wash. Owner, Miss Grace Rick, 618 Washington street, Reading, Pa. Brick, 2 stories, 28x30 feet, shingle roof, hot water heating, electric lighting, tile work, yellow pine floors (plumbing reserved). Contract awarded to George Koch, Reading, Pa.

Boiler House, northeast corner of Second and Washington streets, Reading, Pa. Architects, Muhlenberg Bros., Second National Bank Building, Reading, Pa. Owners, J. A. Wilson Co., Inc., on premises. Brick, 1 story, Johns Mansville roof, concrete floors, ornamental iron work. Contract awarded to Beard Const. Co., Reading, Pa.

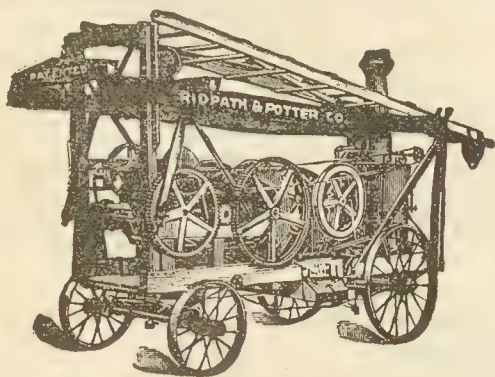
Residences (4), Fifth and Edgemont avenue, Chester, Pa. Architect, private plans. Owner, John P. Crozer, Chester, Pa. Brick, 2 stor-

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ies, slag roof, steam heating, electric lighting. Contract awarded to Samuel R. Bell, Chester, Pa.

School, Montgomery and Penn avenues, Wynnewood, Pa. Architect, private plans. Owners, Montgomery School Board, Wynne-

wood, Pa. Concrete foundations, frame, 1 story, 23x72 feet, section unit granulated surface roofing, cement and yellow pine floors, electric lighting (heating central plant). Contract awarded to Kolb Portable Building Co., Bourse Building, Philadelphia.

NEW JERSEY
Construction News

Inn (alts.) and Garage, Broad street, Glassboro, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Franklin Inn, on premises. Consists of general interior and exterior alterations to inn; garage, stucco on cement block, 1 story, 60x120 feet, slag roof, steam heating, electric lighting, hollow metal skylights, cement floors (gasoline storage system reserved). Architect taking bids, due September 10th at noon. Frank C. Ware, F. L. Supplee, and Van Lier & Albertson, all of Glassboro, N. J.; William Congezer, Haddon Heights, N. J.; Charles C. Thurlow, Mantua, N. J., and the Peterson Const. Co., Clayton, N. J., are figuring.

Residence (alt. and add.) and Garage, Third and Pine streets, Millville, N. J. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owner, Dr. F. R. Sheppard, on premises. Concrete block and plaster. Residence 3 stories; garage 1 story, 18x20 feet, porch additions, slag roof, cement and hardwood floors, hot water heating, electric lighting. Plans completed. Architects taking sub-bids.

Warehouse (add.), Atlantic City, N. J. Architects, Price & McLanahan, 1418 Walnut street, Philadelphia. Owners, Hotel Traymore, Atlantic City, N. J. Brick and reinforced concrete, 2 stories, 16x150 feet. Barrett or slag roof, fire and hollow metal doors, iron stairs, roof ventilators, elevators (lighting reserved). Contract awarded to M. B. Markland, 19 N.

Boston avenue, Atlantic City, N. J.

Store (alt.), Pennsgrove, N. J., \$1,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, A. X. Schwartz, care of architect. Consists of new store front, 1 story, 20 feet wide, metal bulks. Contract awarded to Liberatore Bros., Pennsgrove, N. J.

Bank Building, corner of Broadway and Carman street, Camden, N. J., \$60,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Merchants' Trust Co., corner of Broadway and Carman street, Camden, N. J. Marble (fireproof), 1 story and basement and mezzanine, 40x90 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, marble and cement floors, metal lath, roof ventilators, metal window guards, waterproofing, ornamental iron work. Plans completed. Architect ready for bids.

Miscellaneous
Construction News

Residence, Centerville, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owner's name withheld. Frame, 2½ stories, shingle roof, hot air heating, electric lighting,

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tile work, hardwood floors. Plans completed. Architect ready for bids.

Garage and Chauffeur's Quarters, near Wilmington, Del., \$8,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, C. B. Holladay, Wilmington, Del. Hollow tile and stucco, 1½ stories, 25x50 feet, shingle roof, steam heating, electric lighting, concrete floors, gasoline storage system. Architect has received bids.

School, Laurel, Del., \$35,000. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owners, School Board of Laurel, Laurel, Del. Brick and concrete, 2 stories and basement, 88x100 feet, slate roof (mechanical air heating and ventilating reserved), electric lighting, pine floors. Low bidder, James A. Hicens, Dover, Del.

Office Building (alt.), Fourth and French streets, Wilmington, Del. Architect, R. C. Tindall, 904 Orange street, Wilmington, Del. Owner, W. C. Phillips, on premises. Consists of general interior alterations. Contract awarded to Harry S. Lynch, 715 Tatnall st., Wilmington, Del.

Store (alt. and add.), 331 East Fourth st., Wilmington, Del., \$5,000. Architect, John E. Canning, 11 East Thirteenth street, Wilmington, Del. Owner, Max Keil, 300 East Fourth street, Wilmington, Del. Brick, 3 stories, slag roof, electric lighting, North Carolina pine floors. Contract awarded to Charles Anderson, Wilmington, Del.

Schools (2), Riverdale and Mullikin, Md., \$30,000. Architect, Bart Tourison. Land Title Building, Philadelphia. Owners, School Board of Upper Marlboro Township. E. S. Burroughs, president, Court House, Upper Marlboro, Md. Brick, 2 stories, 113x33 feet, asphalt shingle roof, steam heating, electric lighting, maple and cement floors, rolled steel sash, metal 11th. In addition to those previously reported, the following are figuring: C. E. Nichols, Laurel, Md.; J. J. Stehle, Bean Bros., Oscar Lloyd, all of Annapolis, Md., and Cogswell Koether Co., 406 Park street, Baltimore, Md.

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COMPLETE CITIES TO BE ERECT- ED FOR U. S. GOVERNMENT.

Plans have been made and locations are now being selected for the 32 towns to be erected by the U. S. Government for mobilization camps for the new army of 1,000,000 men. Each camp will be of sufficient size to provide for about 22,000 soldiers and will be a complete city in itself. As soon as the camp sites are chosen the surveys will be made and contracts will be let. The construction work will be done by contract, under the supervision of Army officers.

To direct this undertaking Col. I. W. Littell, of the Quartermaster General's Division, Washington, D. C., has been placed, by order of the Secretary of War, in general charge of contonment construction. Col. Littell has already begun organizing his forces for the work.

It is estimated that 600,000 M feet of lumber will be required, and arrangements are being made to secure this in all parts of the country, preferably in the section where the camps will be located. Each of the 32 cantonments contain about 2,000 houses. These will include quarters for the men, officers' quarters, kitchens, mess halls, bathhouses, storehouses, and all the various buildings needed for housing the troops and providing for the varied activities of a big camp. Most of the buildings will be long, one-story structures, with some two-story houses. They will be of plain construction but will be of modern type, and the plans and sanitary arrangements will carry out the most approved methods. They are expected to be the best arranged, cleanest, and most up-to-date barracks yet erected.

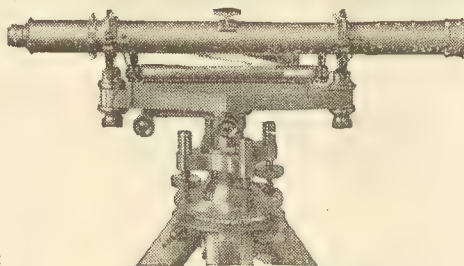
Each town will cover about 720 acres, a little over a square mile, and this does not include the large area required for drill grounds at each camp.

The contractors who are to do the construction work will organize their own forces of carpenters, laborers, etc., but the building will be done under the direction of Army officers. Several officers from the Quartermaster's Department, Government inspectors, timekeepers, foremen, engineers, plumbers, etc., will be stationed at each camp town, and Col. Littell has already begun to arrange for the men required for this work.

In addition to the 32 camptowns, the Quartermaster's Department will erect groups of warehouses at points where Army stores are to be concentrated. The exact number and location of these has not yet been determined, as they are to be erected to meet the needs of the Army as they arise.

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GETTING CONTRACTS FOR CONCRETE BUILDINGS

Salesmanship Methods Discussed—What a Selling Campaign Should Embrace and What is to be Avoided

Selling a concrete building to its owner, now that reinforced concrete is so widely accepted as a meritorious material for industrial buildings, usually really means the getting of the contract to erect such a building. It seems to me that fundamentally it makes little difference whether we are out to get a lump sum contract, a cost plus percentage contract, or a cost and profit sharing contract, or any one of the many service-forms of building contracts—the underlying problem is to get the job. The perfect salesman for this class of business is the fellow who can get the contract.

It has been my experience that contractors weaken their selling campaigns the moment they attempt to dictate to the prospective customer, how that customer shall do his business. Our position has always been that we were out to sell our services to our customers on any fair basis and that the form of contract they chose was of secondary importance.

Suppose you hear of a factory that is going to be built and you decide you want the contract.

You've got considerable of a task to make the proper approach and interest your prospect in your proposition. Perhaps you have, first of all, to sell concrete as compared to steel or mill construction, if the status of the building so far as material or construction is concerned is not already established. That accomplished, either by you or previously, next comes the presentation of the actual contract getting, talking points such as your company's record of work done, its present readiness to erect the building in question, its financial strength and the perfection of its organization. Then the merits have to be made clear of such factors as the plant ready to send to the job at once, the liveness of the Traffic Department, the speed records and what certainty of delivery means, and above all else, dependability of performance.

To drive home to the buyers' inner conscientiousness, to that part of him which actually moves himself as distinct from the external casual momentary side of him, these selling arguments; and also to make each of the many other talking points count and win; to tell this story so that the listener will believe it, and what is more believe it so he knows unalterably that what is back of the salesman is the best on the market—all this is ordinarily about as much as the salesman can hope to accomplish.

If you bring up the question of the particular form of contract that the contractor will alone accept, you add to the salesman's task and bring in a new element, which really is a subject by itself and but a detail of the big selling problem.

The statement has been made that no selling is possible except when the contract takes the form of a service or percentage document. I want to take exception to this statement. I know of many instances where hard intensive selling, such, for example, as interviews, telephone calls, frequent telegrams, photographs—monthly, weekly, daily, twice a day, influence channels properly worked, printed literature, inspection trips to similar jobs—where such good hard sweating has landed the contract at a preference in the straightest and hardest kind of competitions.

Two instances particularly are in my mind—one in competition of lump sum bidding of ten bidders for three-quarters of a million dollars job, where the fifth from the bottom bidder secured the job at \$60,000 preference. Hard selling, backed by unblemished reputation and unusual speed records, influenced the Board of Directors to pay the premium. Another case of a nearly million dollar job. Thirteen bidders, the pick of the country, straight lump sum bids, nearly \$80,000 preference to the ninth highest bidder. Selling did it.

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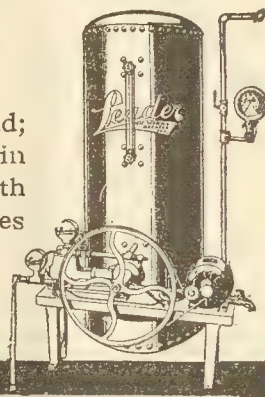
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The intelligent owner starts out not to buy a particular kind of contract, but to select the contractor he believes will serve him best. Of course, if the contractor can persuade the owner to award the job without competitions, so much the better, and for this kind of a deal the service or percentage contract has many merits and advantages and is rapidly coming into force. In fact, the writer's company out of thirty-two concrete buildings contracted for in the first five months of 1917, handled twenty-six on a cost and percentage basis. But as far as the general selling problem is concerned the form of contract is secondary. Sell your services first and then sit down with the lawyers to sign the papers. The contract form is but one of the good building salesman's many talking points—to be used as needed.

Industrial executives in letting building contracts may, in my experience, be divided into two broad classes, and I believe this division applies pretty widely to any set of buyers:

1st—The man (or company) who wants what he wants more than the money it costs.

2nd—The fellow who thinks more about the price than he does about his purchase.

Number One you can sell. He wants a good building built on time and is willing to pay a fair price. Secure his confidence and let him write his own contract (whether he takes competition or not depends on the salesman or

on unchangeable conditions). There is, as other builders have well pointed out, no better line of attack than to reach your man through his own industry or his own friends. Another good way to sell buildings is to let some one else sell for you. Impartial opinion, real or ostensible, goes miles beyond prejudiced salesman's talk. Architects or engineers should be cultivated to this end.

Often competitive bids are taken by this first class of buyers, but they select from their bids the concern they believe to be the best. Of course, price has to be considered, but is of secondary importance. A good building salesman keeps it there. The refusal of a job at a price other than your bid is a situation to be sought and of great value when secured.

Number Two can also be sold, but it is a far harder accomplishment and rather rare unless we consider getting a job on price selling. Personally, I think it is order taking. Price alone is being more and more talked out of the modern contracting business, but it's a mighty big factor yet.

The architect and the engineer are susceptible to the same line of thought as the owner. Of course, the details of approach, argument and closing are radically different, but the foregoing principles are fundamentally correct here as well.

In selling reinforced concrete buildings, a man is arguing the merits of a material or of a class of construction.

In getting a job, the contractor is, of

course, selling services—often the two problems dovetail. It seems to me, however, that for either or both the following requirements are vital to successful selling:

1st—Perfect your organization to the point where it can and does do what is claimed for it. Over statement of merit gives but temporary success.

2nd—Advertise energetically and as extensively as your purse affords. Job signs, booklets, photographs, magazines, newspapers—all are effective.

3rd—Intensively sell by means of men of pleasant personality who know their game; that is, are experienced in the concrete construction field, can design broadly and advise knowingly, and above all who have energy and courage, and won't take no.—J. P. H. Perry, Contract Manager, Turner Construction Company, in the New York "Real Estate Record."

PLASTER TROUBLE.

A frequent trouble encountered in plastering is the failure of the plaster to adhere permanently to the lath. In some cases this is due to an excess amount of sand in the plaster. It may be caused by a little carelessness in mixing. Sometimes the plaster is too old when applied and will not adhere properly.

Probably the most fruitful cause of unsatisfactory plastering, according to a builder, is insufficient slaking of the lime. Before all the little particles have been reached by the water, the hair and sand are thrown in and the mixture slapped on the laths. For weeks and months afterward little lumps of lime continue to absorb water and explode, causing small cracks or blisters and throwing off little chips from the surface. When the Boston Public Library was built, the lime for plastering was slaked one whole year before mixing. Allow at least a week for this chemical action, keeping the same in a tight box outside.

Hair is mixed with plaster to give it tenacity. Watch the next mixer you come across. He probably will turn the hose on some dry lime, hoe it back and forth for a few minutes, then throw in the hair and mix the two. The result is that the hair is so burned that it retains no more of its tenacity than does a toothless bulldog. It is far harder to distribute the hair evenly throughout the mass of lime putty than when there is free water to help break up the lumps; nevertheless, for the sake of a good job, see that the hair does not go in for twenty-four hours at least after slaking, and a week would be better. Long ox hair is best; goat's hair is not strong; short cattle hair and horse hair are of the least value. Chopped manila fiber is largely used in New York.

River sand is best for plaster. Pit sand

We have pebbles all sizes. Cost less than what you are using. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

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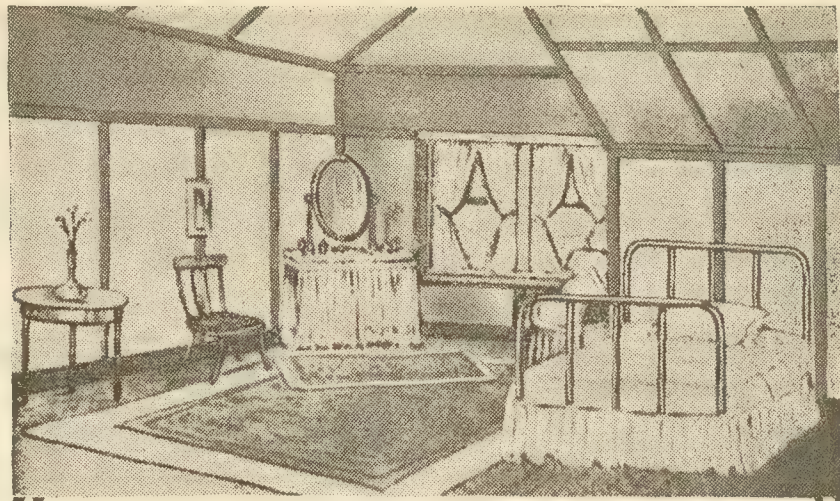
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is liable to contain clay, and sea sand is not so angular so that the lime does not bind it so closely together. If sea sand must be used, see that it is washed in fresh water to take out the salt.

A New York architect of experience says that on straight work, where there are no elaborate moldings, he specifies two-coat work with patent plaster. If he asked for three-coat work he would get a higher estimate and the same sort of a job. If the walls of the house have been built particularly straight and true, two coats of plaster are just as good as three. If the walls are not true then the plastering may be so uneven that base-board and casings will not fit closely against it.

The truth of the matter is that on fine work, where cornices, moldings or coves are to be run, good workmen can do a far better job with three coats than with two. As a matter of fact, however, unless you have an experienced and conscientious superintendent, you will really get a two-coat job when three coats are specified.—"Keith's Magazine."

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Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Dwellings (26), Franklin and Loudon sts., \$65,000. Bauerle & Emy (O and C), 4301 N. Seventh street. Brick, 2 stories, 15x29 feet, slag roof, hot water heating.

Dwellings (16), 2700-30 South Mole street, (12) 2701-23 South Mole street, (1) 1748 Johnston street, (24) 1700-46 Johnston street, (1) 2808 South Seventeenth street, (3) 2802-2806 South Seventeenth street, \$97,100. Chas. M. Weild (O and C), 2316 South Broad street. Brick, 2 stories, 15x30 feet, slag roof, hot air heating.

Dwelling, Eleventh and Cheltenham avenue, \$4,500. Harry Burson (O), Sixty-fifth and Park avenue. Arthur V. Turner (C), 6328

North Camac street. Stone and hollow tile, 2 stories, 23x32 feet, slate roof, hot water heating.

Garage, 6417 North Camac street, \$300. H. Maxner (O), on premises. L. Davis (C), Thirteenth and Nedro streets. Brick, 1 story, 10x18 feet, slag roof.

Store (1) and Dwellings (15), 4901, 4903-29 North Hutchinson street, \$37,900. W. Fischer (O and C), 3621 North Fifth street. Stone and brick, 2 stories, 16x45 feet and 15x31 feet, slag roof, hot water heating.

Dwellings (4), 7100-06 Elmwood avenue, \$9,200. Alfonzo Fox (O and C), 2408 South Seventy-first street. Brick, 2 stories, 16x40

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Tasker Street Wharf, Delaware River, Philadelphia.

feet, slag roof, hot water heating.

Garage, 2120-22 Fairmount street, \$12,000. Wm. Meyers (O), 1501 Vine street. Herman Voight (C), Twenty-eighth and Thompson streets. Brick, 1 story, 40x165 feet.

Garage, 540 North Fifty-second street, \$650. Joe Schroder (O), on premises. Wm. Gilbert (C), 938 North Forty-eighth street. Brick, 1 story, 16x30 feet, slag roof.

Shed, Morris street wharf, \$1,285. Baugh

& Sons Co. (O and C), on premises. Open shed, 22x109 feet.

Garage, 508 Lindley avenue, \$5,000. M. J. Fisch (O), 3216 North Marshall street. John Morrow (C), 2647 Orthodox street. Brick, 1 story, 18x105 feet, slag roof.

Dwellings (4), 1029-35 Robbins street, \$8,000. Harry F. Hartwig (O and C), 7403 Bingham street. Brick, 2 stories, 14x41 feet, slag roofing, hot water heating.

\$800. A. Lombardi (O), 1026 Wharton street. P. Giardaus (C), 724 Salter street. Brick, 1 story, 21x24 feet, slag roof.

Store and Dwelling, Somerset and Chatham streets, \$675. M. A. Connelly (O), on premises. J. Jamison (C), 2585 Huntingdon street. Brick, 1 story, 15x15 feet, slag roof.

Office, 324 East Allen street, \$750. Thomas Bros. Co. (O), on premises. B. R. Groves (C), Merchantville, N. J. Fire repairs.

Office and Store House, 1220 Beach street, \$500. H. F. Thomas (O), 324 East Allen street. Thomas Foster (C), 402 Richmond street. Fire repairs.

Garage, Cumberland and Broad streets, \$1,500. Anna McCracken (O), 2502 North Broad street. J. Jones (C), 1321 Jefferson street. Brick, 1 story, 20x50 feet, slag roof.

Store and Dwelling, 1503 South Twelfth street, \$1,250. Harry Hushm (O), 963 North Marshall street. Max Nixon (C), 802 North Sixth street. Brick, 1 story, 15x22 feet, flush bulk.

Wagon Shed, 3261 Kensington avenue, \$500. George Green (O and C), 3259 Kensington avenue. Iron on iron, 1 story, 18x60 feet, slag roof.

Green House, 6324 City avenue, \$500. J. P. V. Lathrop (O and C), 2135 North Sixty-third street. Iron construction, 18x32 feet.

Dwelling, 4929 Greene street, Germantown, \$2,000. C. W. Jones (O), 4929 Greene street. Germantown. H. H. Burrell (C), 206 South Quinton street. Brick, 2 stories, 16x8 feet, slag roof.

Office, 6239 Haverford avenue, \$500. S. S. Casper (O and C), 559 North Sixty-third street. Alterations.

Garage, 144 Queen street, \$500. H. Treese (O), on premises. H. Trexler (C), 212 East Horter street. Alterations to roof.

Store and Dwelling, 4927 Rising Sun avenue, \$400. Mrs. H. McConnell (O), on premises. G. Simon (C), 1023 Naruh street. Brick, 2 stories, front, 16x1 feet.

Open Shed, Oakford and Twenty-ninth sts., \$3,000. Philadelphia Railroad Co. (O and C), Broad Street Station. One story. 30x96 feet, open on all sides.

Store and Dwelling, 2759-61 Orthodox st., \$800. Charles Silcox (O). Lewis Ahlers (C). 4433 Salmon street. Alterations to front and new bulk.

Shop, 2500 Harold street, \$350. Thomas Fitzpatrick (C). P. E. Anbell (C), 2530 North Ninth street. Iron on iron, 1 story, 18x22 feet.

Mill. Ruth and Somerset streets, \$2,400. Orinoka Mills (O). W. R. Hines & Co. (C), 1713 Moravian street. Install cellar.

Dwelling, 310 Lombard street, \$400. Jennie Withman (O). H. Blumenthal (C), 313 Spruce street. Brick, 1 story, 16x12 feet, slag roof.

Dwelling, 1942-44 East Lehigh avenue, \$1,750. Joseph J. Garvin (O), 2400 N. Front street. Mrs. Planchard (O), 1944 East Lehigh avenue. J. F. Carberry (C), 1968 Medary avenue. New bulk front.

Dwelling, 5925 Wayne avenue, \$900. Mrs. M. B. Hamilton (O). A. Caie (C), 48 East Chestnut avenue, Chestnut Hill. Front porch.

Garage, 1011 Seventeenth avenue, Oak Lane, \$1,200. George Livingston (O). John Schuster (C), 3552 North Fifteenth street. Stone, 1 story, 23x32 feet cement floor, slate roof.

Factory, 116-18 North Front street, \$31,000. George D. Wetherill Co. (O), 114 North Front street. Harry H. Wehmeyer (C), 1004 Lehigh avenue. Brick, 4 stories, 37x74 feet, slag roof.

Alterations and Additions

Factory, Fifty-second and Gray's avenue, \$1,200. Diamond Oil Co. (O and C), on premises. Brick, 1 story, 30x72 feet, tin roof.

Wagon Shop, 459-61 North Third street, \$500. M. Sax (O and C), 516 North Randolph street. Shed, 40x17 feet and 3x12 feet, open on all sides, slag roof.

Church, corner of Hancock and York sts., \$5,000. Alpha Baptist Church, Witherspoon Building. Robert Beatty & Bros. (C), 2321 Fetcher. Completion of the work, floors, plastering and stairway.

Stores and Dwelling, 1712-14 North Forty-second street, \$1,300. Charles Eggleston (O and C), 1005 Bailey. Brick, 1 story, 15x10 feet.

Factory, Thirty-first and Ludlow streets, \$2,000. Philadelphia Lawn Mower Co. (O), on premises. Brant Stuart Co. (C), Commercial Trust Building. Repairs to brick and timber construction.

Store and Office Building, Chestnut and Juniper streets, \$5,000. Weighman Estate (O), 1524 Chestnut street. James S. Talley (C), 1931 Market street. Alterations to store front only.

Store, 437 Market street, \$500. Pennsylvania Co. (O), 517 Chestnut street. Hayes Mendenhall & Son (C), Drexel Building. New bulk windows.

Transformer and Switchboard, end of Morris street, \$2,480. Baught & Sons Co. (O and C), Morris street wharf. Brick, 1 story, 16x30 feet.

Dwelling, 3113 Midvale avenue, \$600. W. D. Kimball (O). Stokes Bros. (C), 6723 Musgrave street. Brick, second story porch, 8x16 feet.

Tank, Gaul street and Wheatheaf Lane, \$850. F. W. Tunnel & Co. (O and C), 15 North Fifth street. Brick and cement foundation for 10,000 gallon water tank.

Tank, Oxford and Wark streets, Frankford, \$850. Globe Dye Works (O and C). One 21,000 gallon tank.

Warehouse, Hazzard and Collins streets, \$12,000. F. Whitaker (O), 2041 East Huntington street. J. A. Dunkelberger (C), 71 Herman street. Brick, 2 stories, 40x62 feet, slag roof.

Store and Dwelling, 812 South Eighth street, \$700. G. LaMotta (O and C). New flush bulk. Bungalow, Vance avenue and Eighty-ninth street, \$1,800. F. W. Poppelman (O). James Garner (C), 7802 Bartram avenue. Brick, 1 story, 16x50 feet, slag roof.

Store and Office, 308 Chestnut street, \$1,400. J. E. Hand (O), on premises. Evans Const. Co. (C), 9 South Eighteenth street. Alterations.

Shop, 3105-07 Gray's Ferry Road, \$300. Lutz Co., Inc. (O and C), on premises. Iron on iron, second story addition, 16x32 feet, Barrett roofing.

Dwelling, 322 South Sixteenth street, \$1,300.

Dr. C. B. Worden (O), on premises. M. S. Grawl (C), Bulletin Building. Brick, third story addition, 12x14 feet, slag roof.

Office, 508 Lindley avenue, \$400. M. J. Fisch (O), 3216 North Marshall street. John Morrow (C), 2647 Orthodox street. Brick, 1 story, 12x18 feet, slag roof.

Store, 322 North Broad street, \$3,175. W. Freeman (O), 1514 North Broad street. Davis & Clayton (C), 1841 Ginnodo street. Brick, 1 story, 33x41 feet, slag roof.

Garage, Mt. Airy avenue and Germantown avenue, \$7,000. E. P. Rotzell (O), 25 West Mt. Airy avenue. Stanton B. White & Co. (C), Haines and Morton streets. Brick, 1 story, 50x106 feet, slag roof.

Dwelling, 1158 South Eleventh street, \$600. Don Bertotti (O), on premises. N. Bartolome (C), 1241 Christian street. Brick, 1 story, 18x24 feet, slag roof.

Theatre, Chestnut and Tenth streets, \$25,000. University of Pennsylvania (O), Philadelphia. George & Bors (C), 277 South Eleventh street. New floor and alterations.

Garage, Forty-first and Sansom streets, \$1,400. Philadelphia Rapid Transit Co. (O), Eighth and Dauphin streets. Le Roy Smith (C), 4007 Chester avenue. Frame runway from first to second floor.

Dwelling, 7942-44 Tacony street, \$4,000. Most Rev. E. F. Prendergast (O), Eighteenth and Race streets. D. W. O'Dea (C), 5227 North Fifth street. Build porch and alterations and hot water heating.

Factory, Seventeenth and Cambria streets, \$21,000. Electric Service Supply Co. (O). John N. Gill & Co. (C), Otis Building. Reinforce concrete, fourth, fifth and sixth stories addition, 62x50 feet.

Store and Dwelling, Fifteenth and McKean streets, \$1,300. F. Matreale (O), on premises. D. D. Espinose (C), 1442 South Thirtieth street. Bulk windows, flush alterations.

Dye House and Power House, Hunting Park and Stanley street, \$1,000. C. Chistos (O). Helen street. Monaghan & Losse (C), 3016 Chestnut street. Tank support and tank, 20,000 gallons.

Office, Morris street wharf, Delaware River, \$300. Bough Sons & Co. (O), on premises. Charles L. Hill (C), 229 Locust street. New bay window.

Club, 824 Pine street, \$975. Working Girls' Catholic Club (O). Brownsworth & Co. (C), 1611 Sansom street. Pile escane.

Factory, 212 South Twenty-fourth street, \$1,800. Charles Hines Co. (O), on premises. George K. Heebner (C), 1231 Vine street. Slag roof on walls, 22x62 feet.

Dwelling, 1425 North Fifteenth street, \$1,000. W. H. Pile (O), on premises. A. M. Clintock (C), 1937 Ridge avenue. Install hot water heating system.

Store and Dwelling, 1424 Castle avenue,

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 Chas. H. Robbins.125 S. 11th st., Phila.
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- Builders.**
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 Mitchell Bros.2125 Race st., Phila.
 Pomeroy Const. Co.1609 Ransstead st., Phila.
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 David France Co.,
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- Cement.**
 P. H. Fairlamb Co.115 S. 30th st., Phila.
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 Charles H. Robbins.125 S. 11th st., Phila.
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- Electrical Construction.**
 Baird-Osterhout Construction Co.,
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- Electric Lighting, Power and Appliances.**
 Philadelphia Electric Co.,
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 A. B. See Electric Elevator Co.,
 Colonial Trust Bldg., Phila.
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 O. W. Ketcham.Builders' Exchange, Phila.
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- Ventilators.**
 Merchant & Evans Co.,
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- Wall Board.**
 Ocell Board.
- Water Paint.**
 Wm. B. Southern,
 N. W. Cor. 12th and Spruce sts., Phila.
- Waterproofing.**
 The Barrett Co.New York City and Phila.
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 Harrison, Mertz & Emlen, Inc.,
 Commercial Trust Bldg., Phila.
- Weather Strip (Metal).**
 Diamond Flexible Metal Weather Strip Co.,
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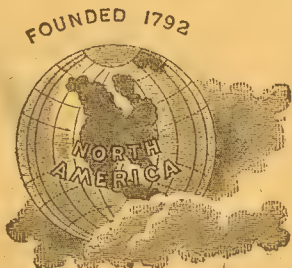
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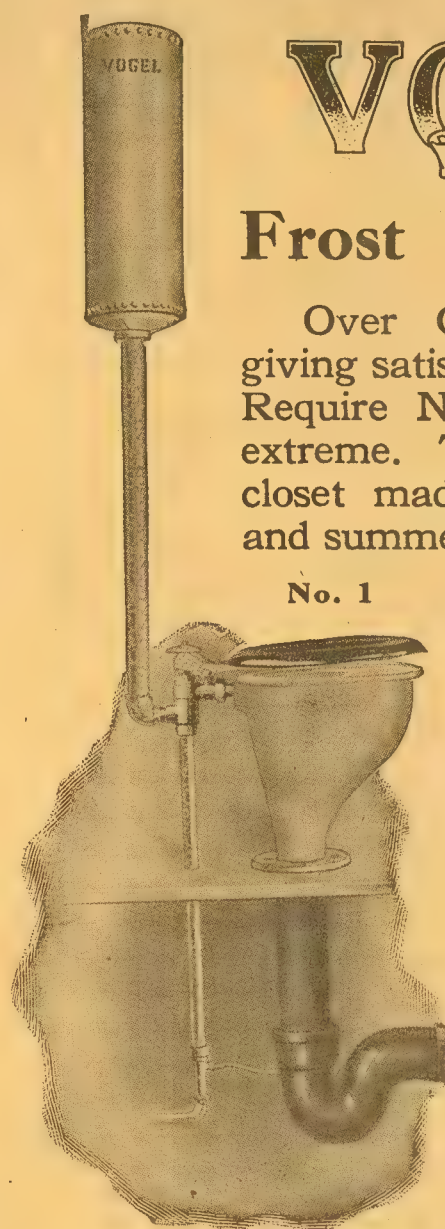
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Vol. XXXII., No. 36
September 12, 1917

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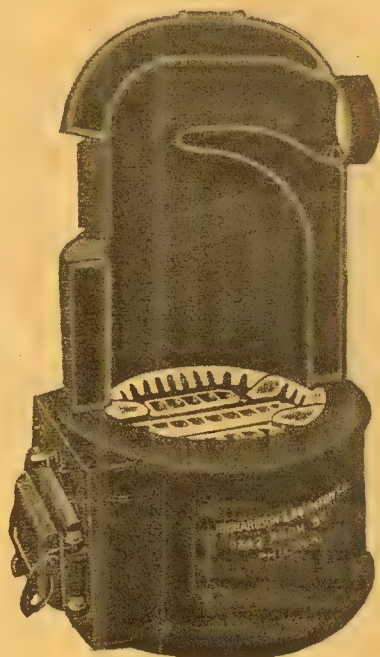
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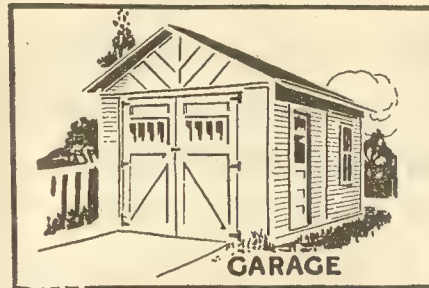
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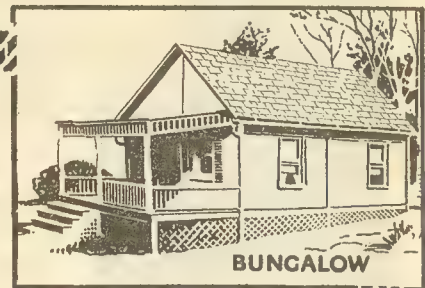
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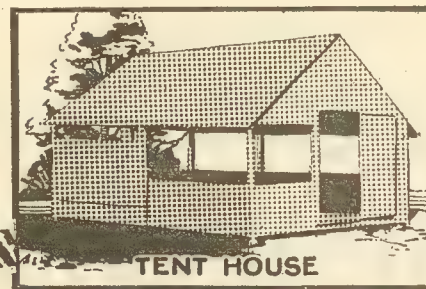
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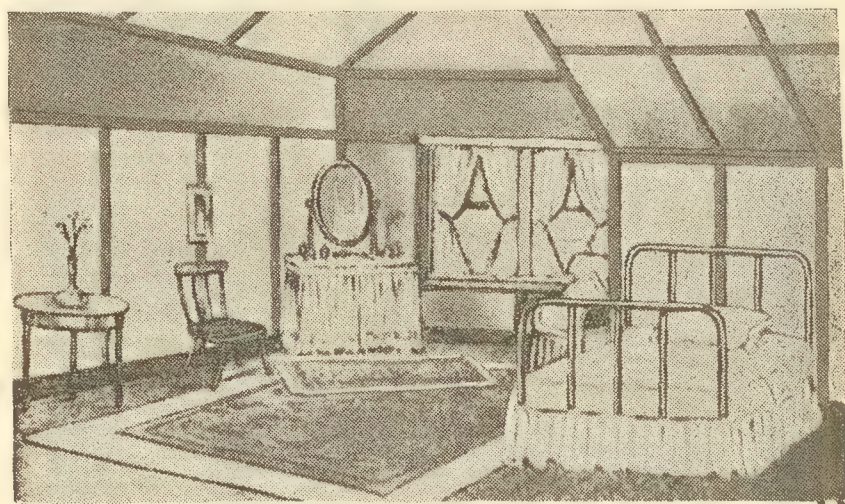
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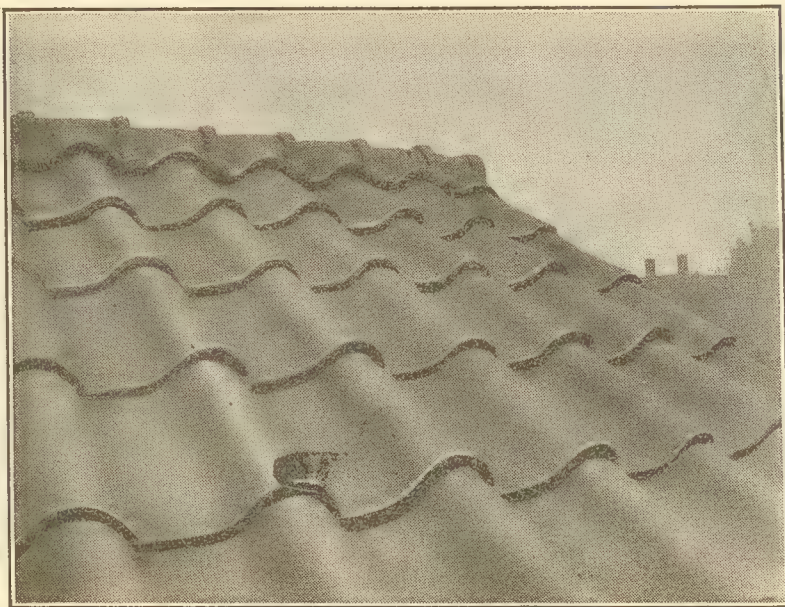
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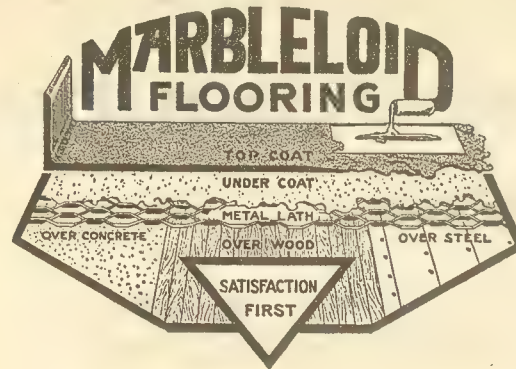


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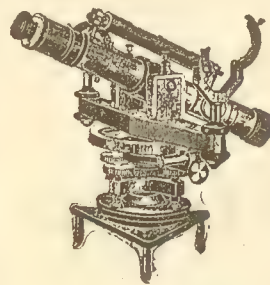
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 37

PHILADELPHIA
September 12, 1917

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As The Editor Sees It



BUILDING operations in Philadelphia in August fell far below the average for that month in the last ten years, according to the monthly statement issued by William W. Gamble, statistician of the Philadelphia Bureau of Building Inspection.

Only 542 permits for building operations were granted. These represented an outlay of \$1,554,115. The average number of permits in August since 1907 was about 1,300, with an average outlay of \$3,700,000. In August of last year 1,247 permits were issued for operations costing in all \$4,472,120. The slump for last month is attributed to the advanced cost of building materials, scarcity of skilled workmen and the tremendous decrease in operation activity due to this condition. Philadelphia is not by any manner of means alone in this respect. New York and other cities feel the pinch of changed conditions as keenly as we do. In New York City a mass meeting of real estate and construction interests, within a radius of twenty-five miles of New York, has been called with a view to determining the actual cause for the general slump in building construction. It is said that agents of the Federal Trade Commission are at work on a similar investigation.

* * *

THE Government's interest is said to be centred upon the matter of finding adequate housing for the thousands of employees that are being gathered for work on Government war

requirements, and incidentally to help keep down the cost of rents.

The fact has become apparent to all concerned that unless some encouragement is given to builders the present stagnation of construction and underbuilt conditions will force rents so high as to make living conditions almost prohibitive.

The committee charged with arranging for the mass meeting received so many requests from associations and building material and equipment companies, engineers, and other interests for an opportunity to lay their side of the question before the general conference, that it was deemed wise to defer fixing a definite date for the mass meeting until an auxiliary committee of building supply and equipment interests, authorities on finance and other persons could be selected.

The outcome of this New York meeting will be awaited with interest. As matters stand operative builders, while admitting the extraordinary demand that exists for houses, intimate that the moneyed interests do not appear to recognize the changed conditions. The moneyed interests attribute the slump to the timidity of the operators insisting that there is available money in any quantity for every legitimate project.

* * *

SUCH work as is being done despite advanced material costs, the labor scarcity and the difficulties at-

tendant upon delivery, is of a large industrial character or is public work. Not all of this public work is federal and limited to military measures.

Reports filed recently with Mayor Smith by Director Datesman, of the Department of Public Works, indicate that within the last twenty months—the life of the present Administration—all previous records for a like period for making public improvements were exceeded. According to the reports, almost \$4,000 was spent every hour and every two days five contracts were awarded for the making of a public improvement of permanent nature, now completed or nearing completion.

The loans of last year made possible this unusual activity. While these loans provided for work in all the city departments, an unusually large share of the money was allotted to the Department of Public Works for various improvements, especially the construction of new streets, the reconstruction of old ones and the further improvement of the various parkways and boulevards. Aside from these, there were additional improvements which had to be made by the department, and these included the construction of new sewers, bridges, work on the city's proposed sewage-disposal system and improvements affecting the city's water supply. There was also loan money provided for the permanent improvement of various kinds of city property, including small parks.

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AFTER the loans were formulated, but before they were authorized, Mayor Smith and Director Datesman completed plans for the work which was to be done with the loan funds. There were three classes of improvements to which they especially gave their attention because of the urgent need of such improvements. These included new streets, additional sewers, new bridges, work on the sewage-disposal plant and the Parkway. This advance preparation helped considerably when it came to getting the work under contract and on the way to completion. Within twenty months \$15,409,394 was put under contract, or \$779,469 every month. Of this total amount, \$8,022,419 was put into the work which had to be done by the Bureau of Highways. More than one-half of this total sum was put under contract between January 1 last and the present date and was devoted to constructive or reconstructive work. There was a total of 773 contracts awarded, which amounted to three contracts every two days. Under the contracts, 108 miles of new or reconstructed streets were completed, or are nearing completion and, in addition, 119 miles of streets which were in bad repair were put in good condition.

* * *

NEXT to the Bureau of Highways, the bulk of the improvement work fell upon the Bureau of Surveys. Here the improvements consisted principally of new sewers, new bridges, sewage disposal work and the elimination of grade crossings. There was a total of twenty-two bridges completed, and in connection with this work \$1,335,500 were expended. Plans were completed for eleven additional bridges involving a total of \$1,144,000 and much of this work would have been placed under way, had it not been for the high cost of materials and labor. There were 227 contracts or five contracts every two days, awarded for the construction of branch sewers, which involved a total of \$1,437,488. The daily expenditure on the work was \$2,875 and there was a branch sewer completed every three and one-quarter days. All told, almost twenty miles of branch sewers were completed and there is now under construction, nearing completion, thirteen additional miles of sewers of the same kind. The work on the main sewers was also pushed, but was not as extensive because the prices asked for such work were prohibitive. As it was more than a half million dollars, or \$510,000, was spent on twelve separate contracts. The additional main sewers planned by the bureau, but held up on account of high prices, will cover twelve miles and require an expenditure of \$1,202,500. The real big feature of the improvement

work under the jurisdiction of the Bureau of Surveys was in connection with the city's proposed sewage disposal plant. There was a total of \$3,025,000 put under contract in connection with this work, which means a total expenditure of slightly more than \$6,000 a day. The feature of this work will be that one of the three big units of the entire system will have been completed and there have been provided sites for the other two units.

* * *

IN the Bureau of City Property the improvements necessitated the award of a total of 115 contracts, three every two weeks and the expenditures of more than \$500,000. These improvements for the most part affect the small parks, Independence Hall and City Hall.

The improvements made under the supervision of the Water Bureau cost the city more than \$500,000 and are covered by seven contracts, ranging in expenditure from \$19,000 to \$148,000.

* * *

OF course, the bulk of the work here referred to was not "building" work in the sense in which it is generally used, but if large bridge and road work projects may be carried through to completion despite labor and material costs what is to prevent the early resumption of operative activity? Waiting for conditions to improve is admittedly unwise as there is every prospect that the present scale of costs will continue for at least a year after the close of the war. Virtually half of Europe is to be rebuilt. America will undoubtedly supply the material. This means a demand that will hold the prices of material to present figures long after peace has been concluded.

* * *

SOME interesting facts regarding the high cost of building are expected to be presented when the suit instituted by Thomas D. Green, of the Hotel Woodward, against the Ford Motor Company for alleged breach of contract comes to trial in the Federal Court. Mr. Green is suing for \$1,500,000, which he claims as damages for the failure of the Ford Motor Company to erect a fifteen-story building on the northeast corner of Broadway and Fifty-fourth street, adjoining the Woodward in New York City. Mr. Green points out, in his complaint, that, despite the increased cost of building, it had been stipulated in his contract that if the building should cost more than \$700,000 he was to pay 5 per cent. additional on any sum over that amount.

The new building was planned to provide over 300 extra rooms for the Hotel Woodward, and it would have given that

hotel a frontage of the entire Broadway block on the east side between Fifty-fourth and Fifty-fifth streets.

The corner is one of the most desirable on Broadway just north of Times Square and some surprise was occasioned in realty circles a week ago when the new plans of the Ford Motor Company were filed for erecting a six-story building on the site estimated to cost \$300,000. As the corner is assessed at \$423,000, and the purchase price in June, 1916, was said to have been nearly \$500,000, the proposed improvement is considerably less than the value of the land, something unusual in a growing commercial centre unless a taxpayer is erected as a temporary expedient.

Mr. Green's lease of the upper thirteen floors of the originally planned structure, as shown in the complaint, aggregated \$1,470,000 for twenty-one years beginning Aug. 1, this year, the yearly rental ranging from \$45,000 for the first year to \$75,000 from the thirteenth to the twenty-first year.

* * *

HOW material costs have advanced in certain lines has been revealed in the statement made by Jerome Loucheim, president of the Keystone State Construction Company, in commenting upon the loss to his company occasioned by the city's delay in awarding the Philadelphia subway contract. Said Mr. Loucheim:

"If bids were made to-day, they would be about \$4,000,000 higher than those made in February. We realize, however, that refusal to accept this work might mean a long setback to the transit programme, so we are going ahead.

"The public little understands the difficulties confronting us. For instance, our firm had delivered here 1,000,000 feet of lumber during the last week, and yesterday it was all commandeered by the government, and we are puzzled how to get more.

"The public may be getting tired of seeing that mass of steel on the southwest plaza of the City Hall. We have been ready to put the steel into place for several months, but we cannot get enough steel to complete the connections with the work under South Broad street and under the City Hall. If we should attempt partial work it might be possible that the effort would result in the destruction of a part of City Hall.

"With conditions like these, we are facing the possibility of a loss of \$1,000 a day if we start the new construction work and the present difficulty of getting supplies continues."

Once-in-a-while advertising is like once-in-a-while eating. Good in its way, but decidedly not nourishing.

EDITORIAL NOTES

Lawson Purdy, at the annual convention of the National Association of Real Estate Boards in Milwaukee, continued to discuss the value of the zoning system in the light of New York City's experience. The efficacy of sane regulation of city growth and provision for future expansion of growing municipalities has been pretty well demonstrated. The old idea that an individual could do as he pleased with his property regardless of the rights of his neighbors has become a thing of the past. It is now being conceded that the interests of the community as a whole are more to be considered than the petty interests of the individual.

* * *

The American Parquetry Floor Company, 1124 Walnut street, Philadelphia, announce their removal, September 1, to Suite 802 Bailey Building, 1218 Chestnut street, Philadelphia, where they extend a welcome to their many customers and friends.

* * *

Although many of the leading architectural and contracting concerns of this city are pessimistic when discussing the present building situation they still hold much hope for the future. Their attitude in regard to prospective work is mainly based upon the anticipated Governmental action through which the price of structural steel and other essential materials of construction will be fixed, and they generally feel that just as soon as the announcement is made, commodity prices will be substantially lowered. As a consequence of reduced material prices a number of structures that are at present being held in abeyance on account of the excessive construction costs will be started and rushed to completion. It is only in this manner that the demand for accommodations, both for living purposes and industrial and commercial expansion, will be satisfied. There are numerous new projects in prospect, the plans and specifications for which have already been prepared, and the owners are only waiting for a recession in material prices to a point where construction is possible on a more reasonable cost basis.

* * *

The National Paint, Oil and Varnish Association will hold its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

* * *

Leading contractors do not hesitate to predict that as soon as the present war is ended that this country will experience one of the largest building movements in its history. Furthermore, the activity will not be confined to any one locality or district, but will be general throughout the entire nation.

* * *

American electric apparatus is gaining

rapidly in popularity the world over. A compilation by the National City Bank of New York shows that the value of electric machinery, appliances and instruments reported in the fiscal year 1917 aggregated more than \$50,000,000, against \$30,000,000 in 1916, \$10,000,000 in 1914, and \$10,000,000 in 1911.

* * *

The National Lumber Association has agreed at a meeting of its Executive Committee to continue to co-operate with the United States Forest Service in the collection of statistics of American lumber production. The excellent work done by the association in 1916 made similar service during 1917 highly desirable.

* * *

Another important phase of construction that is showing evidence of increased activity to a marked degree is the alterations of existing structures to meet with modern requirements, both for business and living. In Manhattan and also the other boroughs of the city there is quite a number of projects of this type. In total this class of work will involve the expenditure of large sums and consume immense quantities of materials.

* * *

Alfred Baruth, fuel economy specialist, representing the Combusto Devices Corporation, which manufactures coal saving apparatus, has opened offices at 250 West Fifty-fourth street, New York.

* * *

The labor market is quiet but scarcity of both skilled and unskilled labor continues to complicate a situation that is far from normal. From all quarters come complaints of shortage of men to operate plants to full capacity, and there is no one able to predict when these conditions are likely to improve or to offer a solution to the problem.

* * *

Gilbert L. Robinson, formerly connected with the steel department of Gaston, Williams & Wigmore, Inc., New York, has resigned to become associated with F. W. Highberger & Co., coal, coke, pig iron and steel, 30 Church street, New York.

* * *

In war—modern war—it is necessary for the Government either to seize the processes of production and distribution or to declare a partnership with business and share control of the basic industries with the proprietors. The proprietors do not object to it in principle, because the use of such measures in a time of national emergency is obvious to all intelligent people, but if they did object it would not matter at all, for then the Government would go further and set the proprietors out of doors—for the duration of the war. All of this is now perfectly understood. What very few of us have begun seriously to con-

sider is that this partnership between Government and business will not end with the war. It cannot, for the reason that the Government at the close of the war will be immediately confronted with the problem of funding, carrying and liquidating a debt so big and so suddenly created that no fiscal experience of the past can have any coherent relation to the problem. This will be true all over the world.—A. A. Housman & Co.

* * *

J. L. Philips & Co., wholesale and manufacturing yellow pine specialists, 32 Broadway, Manhattan branch office, New Orleans, La., have incorporated under New York State laws. The officers of the new corporation are: President, J. L. Philips; vice-president, C. L. Robinson, and secretary, treasurer, E. R. Philips.

* * *

The Association of Iron and Steel Electrical Engineers will hold its eleventh annual convention at the Bellevue-Stratford Hotel, Philadelphia, Pa., September 10-14, inclusive. Wednesday, September 12, will be devoted entirely to a patriotic program, with addresses to be made by army and navy engineers on matters of vital importance to the industries with which the association is identified.

* * *

There ought not to be a school building in the city which cannot meet a sanitary test and be marked "good." A sound body is an essential to a sound mind, and educational benefits are handicapped if the children are subjected to the menace of unsanitary conditions. Undoubtedly the immediate abandonment of every unfit school building is impracticable, but the reconstruction, or actual displacement, of such buildings ought to have first claim on the attention of the Board of Education, and no false economy should stand in its way.

* * *

Sperry & Bittner, Pittsburgh, Pa., is the name of a new firm that has opened offices in the First National Bank Building as manufacturers' agents. Ralph C. Sperry was formerly Pittsburgh district manager of the Brilliant Electric Division of the National Lamp Works. William A. Bittner has for the last ten years been connected with the Union Electric Company of Pittsburgh as office manager and purchasing agent. Both are well known to the electric fraternity. At present they represent the Steel City Electric Company, of Pittsburgh; A. O. Schoonmaker Company, of New York City, and the Argus Lamp and Appliance Company, of Cleveland, Ohio.

* * *

Two of the largest steel fabrication plants, which will construct 100 of the largest vessels for the Emergency Fleet Corporation, will be erected on the Delaware River—one on Hog Island, near League Island, and the other at Chester. At the same time it was announced that a third plant would be built at Newark. Contracts for erection of these plants, which

will be on Government land and semi-Government owned, will be signed by the Emergency Fleet Corporation, but the corporations that will erect and operate the plants have been authorized to begin work without waiting for the signing of the contracts.

The Hog Island plant, the largest, will be erected by the International American Corporation, of which the New York Shipbuilding Company is a subsidiary. The Chester plant, which will be next in size, will be erected and

operated by the Harriman interests. It is understood that one of the Chester shipbuilding concerns will be absorbed by the Harriman interests.

The Emergency Fleet Corporation has set aside \$35,000,000 for the erection of these plants and of this sum \$25,000,000 will be used for the plants on the Delaware, while to the Submarine Boat Company, which will erect the plant at Newark, will be apportioned \$10,000,000.

METAL LATH IN STUCCO AND PLASTER CONSTRUCTION

As shown in the investigation of the durability of stucco and plaster construction now carried on by the United States Bureau of Standards in their laboratory at Washington, D. C.

An extensive practical investigation is now being carried out by the Bureau of Standards of the United States Government regarding the permanency of stucco as applied to various bases and with various mixtures. For this series of tests a special testing structure was erected approximately 200 feet long, 26 feet wide and 25 feet high. The building is two stories in height, covered with a low hipped roof and ornamented with cornices and pilasters. The exterior walls of this building have been divided into panels approximately 10 by 15 feet in size, each panel containing a window or a door. In this manner, fifty-six panels have been provided with various bases for the plastering and various types of mixtures. The following information in regard to the performance of metal lath in these tests has been digested by the Publicity Bureau of the Associated Metal Lath Manufacturers, and is herewith presented to those readers who have become interested in the subject of stucco construction. The panels referred to are divided into eleven groups, which can be summarized as follows:

- Groups 1, 2 and 3—Metal Lath, 19 panels.
- Groups 4 and 5—Wood Lath, 8 panels.
- Group 6—Plaster Board, 4 panels.
- Group 7—Terra Cotta Tile, 9 panels.
- Group 8—Brick, 3 panels.
- Group 9—Gypsum Block, 3 panels.
- Group 10—Monolithic Concrete, 6 panels.
- Group 11—Miscellaneous, 4 panels.

The detailed construction of these various panels is described in Bureau of Standards Bulletin No. 70 (pages 8 and 9).

Quoting from this report (page 10), we read: "The number of panels in the different groups is proportioned roughly by the probable extent to which similar construction is used throughout the country, although this number is augmented or decreased according to the importance of certain groups or for the purpose of introducing special tests where found desirable. Thus, since metal lath is used most extensively, the first three groups comprise three different types of construction on metal lath as a base, and each having certain

advantages. It should be stated, in order to avoid a misconception of the purpose of the tests, that while comparisons between various groups and individual panels are always possible, it has been the sense of the committee that each panel should stand primarily on its own merits as representative of a certain type and method of construction, and its eventual condition and rating should be established without reference to any other panel."

Stucco mixtures of various proportions and types were used. These types of stucco are shown in detail in Bulletin No. 70 (pages 6 and 7).

The plastering of panels was started on October 19th and completed on November 24th, 1915. The condition of the test panels has been inspected on three occasions. The first investigation is the result of two independent inspections, "the first made on April 4th and 5th by Messrs. A. C. Bagnall (Bagnall Taylor Company), J. J. Farley (architectural sculptor and contracting plasterer) and William O. Humphreys (John C. Humphreys & Son, expert plasterers and members of the Advisory Committee, and the second made on April 6th and 7th by Messrs. R. J. Wig, J. C. Pearson and W. E. Emley, of the Bureau." The second examination of the test panels was made on December 8th, 1916, and the third investigation in May, 1917. The report of the third inspection has not been printed at this time, but the earlier ones appear in Bulletin No. 70.

The general plan followed in inspection was as follows: "First, a superficial examination was made, in which the general condition and appearance of the panels was noted; then a close and careful investigation was made immediately after spraying the panels with water." The detailed inspections are reported in Bulletin No. 70, pages 63 to 66 inclusive, and supplementary remarks on condition of panels December 8th, 1916, on pages 72 to 74.

Panel No. 15—The Perfect Panel.

Of all the 56 panels erected, it is to be noted that Panel No. 15 is the only one which

has received a rating of "Excellent" in all inspections. An inspection of this panel in May, 1917, by a representative of the Associated Metal Lath Manufacturers shows that this panel still maintains its perfect rating.

The construction of Panel No. 15 consists of ribbed metal lath on ½-inch crimped galvanized furring attached directly to studs with lath back-plastered between studs; stucco mixture (parts by weight), 1 cement, 1-10 high magnesian hydrated lime, 3 sand.

Quoting from report on this panel, page 29, Bulletin No. 70:

"Superficial inspection: Color, uniform dark gray; no cracks; surface rough, general appearance excellent.

"Detailed inspection: No cracks; bond good; condition excellent."

Summary of Results.

It is interesting to examine in tabular form the ratings of the various types of bases used for plastering. In this summary is included the ratings given from the detailed inspection under the heading of "Structural Condition."

Under "Percentage of panels rated fair or better," metal lath is only exceeded by brick and monolithic concrete, which materials, of course, are not comparable to metal lath owing to their greatly increased cost. Metal lath, therefore, stands first among the popular types of stucco construction. The exceptionally high standard of efficiency of metal lath is apparent in all inspections, as well as in the recent investigation conducted in May, 1917.

Analyzing the metal lath panels into the three groups adopted by the Bureau of Standards, and considering the percentage of panels rated fair or better, we find the following results:

Four panels, metal lath, attached to studs without sheathing and lath back plastered, 100 per cent.

It is of particular interest that the back-plastered lath without sheathing has 100 per cent. rating the same as monolithic concrete and brick.

Copies of Bulletin No. 70, Bureau of Standards, will be furnished gratis by the Associated Metal Lath Manufacturers, 901 Swetland Building, Cleveland, Ohio; or can be procured from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 15 cents per copy.

THE TIME TO ADVERTISE.

The editor of "Concrete Age" writes that in a publishing experience of twenty-five years he has never known a time when trade paper advertising was so important, so practical, and so certain of fixed results as at present. "For when the war ends," he says, "the advertising done now will have a double value, first in producing new customers while your competitor is 'off duty' (making war munitions, perhaps), and second in the increased demand for your goods which is sure to follow the declaration of peace.

"Advertise now, as you never did before, and reap results one hundred fold. There can be no question about this investment, for the returns are absolutely certain."

GREATEST REAL ESTATE ERA IN HISTORY NEAR

By Valentine Surnor, President of the Chicago Real Estate Board.

I have been asked by many members of our organization and by many other real estate men as to the probable effect upon the real estate business that will be exerted by the war. I think American entrance into the war will prove a tremendous stimulant to practically all lines of business, and to none more significantly than the realty business.

My reasons why? They are plain enough. The Government has voted an initial war credit of \$7,000,000,000. That is the greatest single government credit in the history of the world. What does it mean?

It means the dispensing of that huge sum of money in all avenues and arteries of trade in this country. Yes, even the three billions that we shall lend to the Allies, because that money will unquestionably be used in stabilizing financial balances in the United States, consequent upon the huge purchases made of us during the past three years or so, and, as a consequence, we shall have our own Government behind the obligations which have been entered into by foreign powers to our manufacturers and producers. That means, of course, from the business viewpoint that there will be no crash due to panicky financial conditions, and will serve to imbue our whole industrial, financial and commercial fabric with renewed confidence.

But more than the mere stabilizing effect, the raising of this huge sum and its distribution will mean stimulated business activity. My own opinion is that within a few weeks

we shall see an activity that is almost feverish.

We shall see all industrial lines worked to their fullest capacity. We shall see high wages, speeded-up production, increased farm yields, with price restrictions but fair and even high prices to the farmers; in short, we shall witness a period of the greatest business and industrial activity that this country has ever known.

We shall see millions—yes, billions—of dollars, previously hoarded, come out from their hiding places and placed in Government securities. This, when distributed, will mean the appreciation of other securities, because it will mean business expansion. We shall see less "blue-sky" and "get-rich-quick" schemes succeeding, because the people are patriotic and will put their money into Government bonds at lower rates, to help their country and, with the stimulation that the spending of this money will afford, will be able, later, to receive good interest rates upon sound investments, including sound real estate investments, of course.

The influence of all this upon the realty market is plain enough. Factory site will be in acute demand. Homes for workmen will be in lively call. Homes of the better grade, for men who have made an unusual amount of money out of the expanded condition of trade, will be in considerable demand. Store sites, especially in the neighborhood of new or expanded industrial centers, will command good prices and a good market.

and protect himself in the matter of cost. And he generally is unable to visualize or picture from the drawings and plans that are made and shown him just how his building will appear, or whether his ideas will be carried out.

Bewildered by Plans.

"Generally speaking, plans are a source of bewilderment to the layman. Undoubtedly the prospective owner has noted and studied certain features contained in different buildings which strongly appeal to him.

"Often at his instigation these features have thereupon been assembled, harmonized and drawn out on what are technically known as flat elevation and sectional drawings, which are perhaps even more of a mystery to him than the plans. To him the elevation drawing, ordinarily, is hardly an intelligent picture.

"Then a number of contractors are asked to submit estimates of cost based on the plans and specifications. Statistics show that in a vast majority of cases the figures received are far in excess of the owners' expectations.

"The prospective owner should realize that building materials and labor cannot be legitimately obtained at less than cost. Therefore, should he accept an offer that is materially lower than the ruling price, he must take it for granted that the contractor purposes to erect and deliver the kind of building that can be constructed for the low price he has made. If the cost is 20 per cent. less than the market price the owner will receive a building 20 per cent. less in value than he intended to build.

"Building to-day is a much more expensive and difficult operation than it was a generation ago. This is due to the constantly increasing cost of labor and supplies. Yet it has been practically demonstrated that it is entirely feasible for a man who would erect a building to go to a reliable business concern which will design, construct and deliver to him a building, complete, as a mortgagor company would sell him an automobile.

"But with the extraordinary facilities at the command of the modern builder there is little chance of disappointment or for misunderstanding to arise. A maximum guaranteed cost can be agreed on, and in such case it is not necessary for the owner to pay more than the contract price. The builder, on the other hand, will credit to the owner any saving that may be effected in the execution of the work."

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

HOME BUILDERS SHOULD CAREFULLY STUDY PLANS TO KEEP DOWN COSTS

Home builders who find the cost of their dwellings have exceeded the appropriations and that many things they ordered were made at an extra cost, should not blame the contractor, according to architects who have listened to complaints in regard to costs.

Failure to study plans carefully and to understand them often compels the home builder to pay extra for the things he wants most, say the architects.

To prevent such surprises the builder is advised first to obtain a complete set of plans. He should have the architect explain them in detail and the specifications should be complete and as thoroughly understood.

Then when the plans are taken to the builder there should be another understanding. If the home builder has a limited amount of money and the contractor's bid exceeds that amount the owner should learn just what is eliminated to bring the cost within his means.

Full Understanding Necessary.

Only such an understanding of the plans, specifications and the contract will make the owner secure, according to N. F. Hoggson, member of the American Builders' Commission, which will advise Europeans regarding structural costs in the building operations that follow the war. Mr. Hoggson said recently of building contracts:

"The cost is the starting point. An owner's dream of the building he would like to have is, of course, his heart's desire. After his needs, wishes and requirements are understood by the builder, and it is known the desired structure can be erected for the specified amount, then construction work may safely begin.

"That way would be idealistic, but it finds few parallels in reality. The average owner usually omits at the outset to determine on

The "Builders' Guide" is the OLDEST, and the ONLY Architectural Publication in Pennsylvania.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Tacony, Philadelphia, \$20,000. Architect, Thomas B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corp., Tacony, Philadelphia. Brick, concrete and hollow tile, 2 stories and basement, 44x50 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash, steel doors, iron stairs, metal lath. Architect ready for bids, due September 12. Barclay White & Co., 1713 Sansom street; F. W. Mark Const. Co., Finance Building; Irwin & Leighton, 126 North Twelfth street; Chas. McCaul Co. and H. E. Baton, 1713 Sansom street; Turner Concrete Steel Co., 1713 Sansom street; Warren, Moore & Co., Colonial Trust Building; Doyle & Co., 1519 Sansom street; J. Sims Wilson Co., 1125 Brown street; Pomeroy Const. Co., 1609 Ranstead street, and John R. Wiggins & Co., Inc., Otis Building, are figuring.

Elevator Shaft, 1732 North Randolph street, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, McNeely & Co., on premises. Brick and steel, concrete work, slag roof, metal lath. Architects have received bids.

Stores and Apartments (2), 249-51 South Thirty-seventh street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Albert Gold, care of architect. Brick, 2 stories, 15x56 feet each, slag roof, hardwood and pine floors, steam heating, electric lighting, tile and marble work, metal bulks. Architect has received bids.

Steel Plant, Tacony, Philadelphia, \$380,000. Architect, Thomas B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corp., Tacony, Philadelphia. Brick, steel, concrete and A. P. M., 1 story. Machine shop, 270x130 feet; treating shop, 135x102 feet; forge shop, 136x210 feet, slag (saw tooth) roofs, rolled steel sash, cement floors. Plans in progress. Architect ready for bids in a week.

Stores and Apartments (alt. and add.), 2040-26 North Broad street, Philadelphia. Architect not selected. Owner, Miss Julia S. Isaacs, care of M. Getz, Fifteenth and York streets, Philadelphia. Brick, 3 stories, consists of remodeling present dwellings. Work contemplated.

Residences (9), Mansion and Leverington streets, Philadelphia, \$20,000. Architect, private plans. Owner, Martin H. Keller, 326 DuPont street, Philadelphia. Brick, 2 stories, 16x23 feet, slag roof, hot air heating, electric

lighting, hardwood floors. Builder, Wm. E. Keller, 480 Harmon Road, Roxborough, is subletting.

Residences (2), Germantown, Philadelphia. Architect, private plans. Owner's name withheld. Brick, hollow tile and plaster, 2½ stories, 30x47 feet, stone and frame; 2½ stories, 48x29 feet, slate roof, parquetry, oak, composition and cement floors (heating reserved), electric lighting, tile work, metal lath. Hayes Mendenhall & Son, 1029 Drexel Building, are taking sub-bids, due September 15th.

Bridges (Nos. 23, 25, 50, 51), various locations. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete, steel and timber, metal caging. Owners taking bids, due September 13th. A. L. Carhart, Hale Building, and Brann & Stuart, Commercial Trust Building, are figuring.

Residence (alt. and add.), 261 South Seventeenth street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Dr. Fielding O. Lewis, on premises. Brick, 1 story addition, 8x12 feet, tin roof, cement and oak floors, hot air heating, electric lighting, hollow metal skylights, waterproofing. Architect taking bids, due as soon as possible. R. C. Ballinger & Co., 218 North Thirteenth street, are figuring (only bidders.)

Warehouse (add.), Broad and Washington avenue, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 7 stories, 131x91 feet, prepared roof, concrete floors, hollow tile, rolled steel sash, fire doors, iron stairs, ornamental iron work, safety treads, metal guards, waterproofing (heating, lighting and elevators reserved). Low bidders: F. W. Mark Const. Co., Finance Building, \$226,226; time, 180 days; Cramp & Co., Denekla Building, \$227,700; time, 175 days; Turner Concrete Steel Co., 1713 Sansom street, \$229,500; time, 210 days.

School (alt. and add.), Fifty-fifth and Chestnut streets, Philadelphia. Architect, J. Horace Cook, Nineteenth above Chestnut st., Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Reinforced concrete, brick and stone, 3 stories, 75x87 feet, slate and tile roof, concrete, maple and composition floors, hollow

tile metal lath, tile and marble work, fire and hollow metal doors, iron stairs, ornamental iron work, metal lath, roof ventilators, waterproofing, dampproofing, wire work (heating, plumbing, electric work and ventilating separate bids). Low bidders: Warren, Moore & Co., Colonial Trust Building, \$115,400; Standard Const. Co., 1713 Sansom street, \$115,720; Mitchell Bros., 2125 Race street, \$116,200.

School (int. alt.), Oak Lane and Twelfth street, Philadelphia. Architect, J. Horace Cook, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick work, painting partitions and interior alterations (plumbing and heating separate bids). Low bidders: Geo. Dobbins & Co., 414 South Forty-first street, \$4689; Mitchell Bros., 2125 Race street, \$4779; E. C. Durell, 1713 North Twenty-fourth street, \$4787.

Factory (alt.), southwest corner Eighteenth and Noble streets, Philadelphia. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Thos. Cusack & Co., 213 South Tenth street, Philadelphia. Brick, 1, 2 and 3 stories, 80x195 feet, cement and wood floors, steam heating, electric lighting, office partitions. Plans in progress. Architect ready for bids in two weeks.

Motion Picture Theatre, Queen Lane, Philadelphia. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Queen Theatre Co., care of architect. Brick and terra cotta, 1 story, 60x137 feet, slag and tile roof, composition floor, steam heating, electric lighting, tile and marble work, metal lath. Plans in progress. Architect will take bids in one week.

Recreation Pier No. 57 (add.), Penn Treaty Park, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, Geo. S. Webster, Director, room 550, City Hall, Philadelphia. Reinforced concrete, steel, timber and wood pilings, double dock, 70x295 feet, bulk heads, A. P. M. and concrete roof, asphalt paving, cement and pine floors, rolled steel sash, kalamain and steel rolling doors, ornamental iron work, metal lath, safety treads, waterproofing, wire work. Owners ready for bids, due September 28th at noon.

Store and Apartments (alt. and add.), Broad and York streets, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Samuel Levick, care of architect. Brick, 3 stories, slag roof, hardwood

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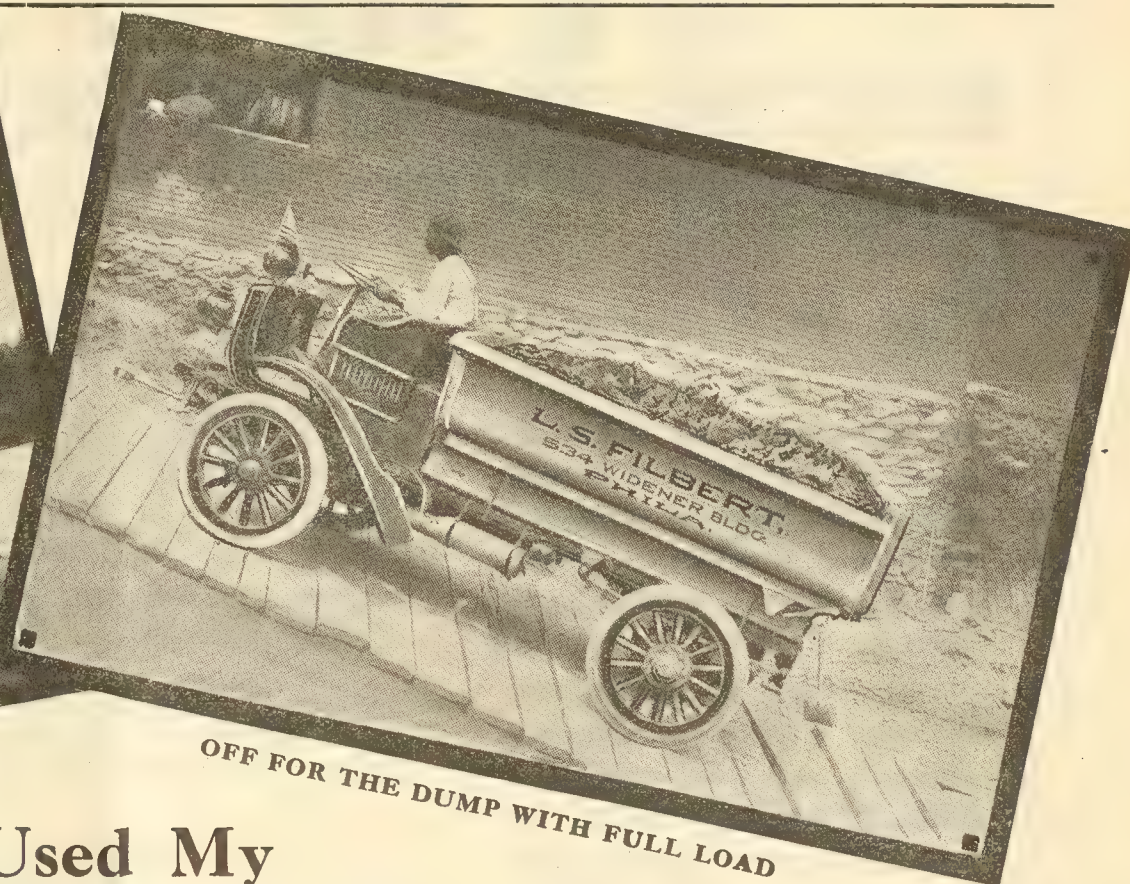
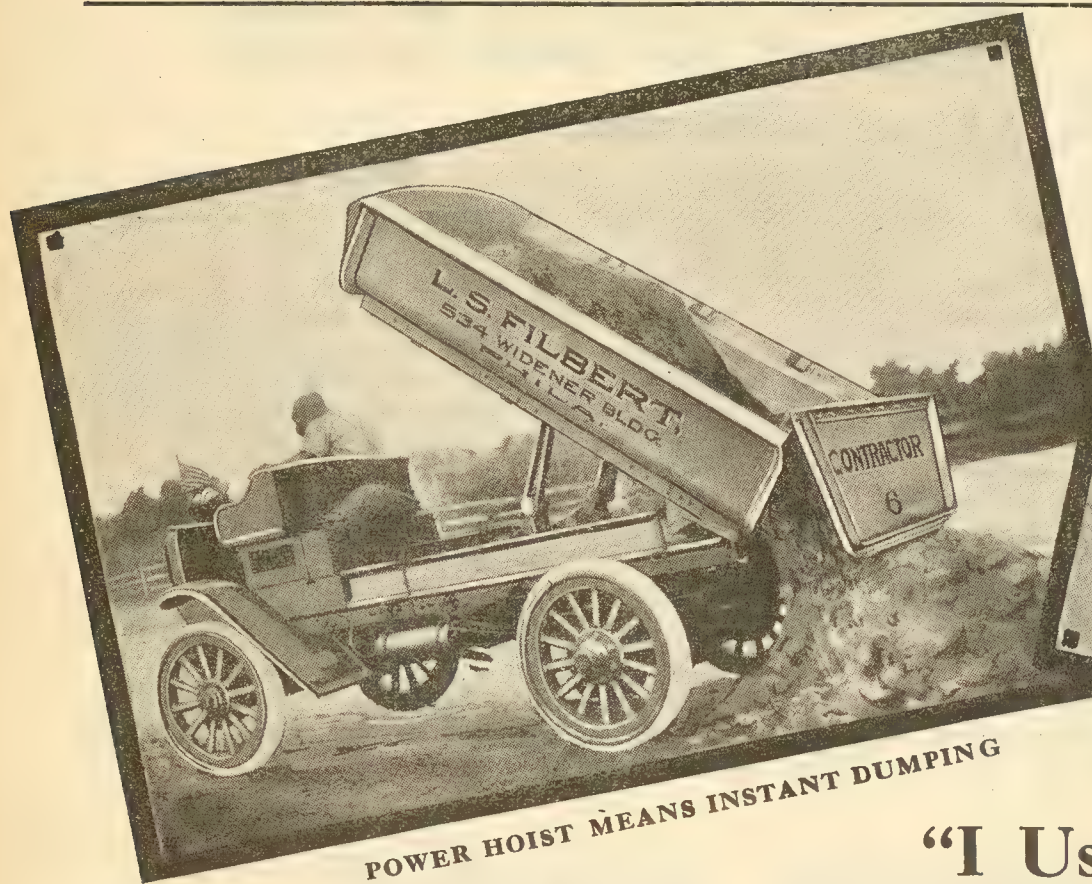
BOTH PHONES

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PUBLIC LEDGER—PHILADELPHIA, FRIDAY MORNING, AUGUST 17, 1917



"I Used My 'Autocar Motor Trucks' for This Excavation"

"ON July 23d I started this job of excavating for the new five-story machine shop that The Autocar Company, of Ardmore, Pa., is

adding to their great motor truck plant—it was a problem how best to dig out some 3000 cubic yards of dirt and haul it to the Autocar baseball field, a mile and a half from the plant.

"It was a question of horses or trucks, but it would have taken seventeen teams of horses to do the work of five Autocars at an additional cost of about sixteen cents per cubic yard.

"My own four Autocar trucks and one other Autocar that I hired have done the job with wonderful speed and economy—each Autocar has dumped, on an average, forty yards of dirt a day at the ball field.

"You will see in one of the pictures a pair of

horses—that one pair has ploughed up much of the dirt, has helped pull down some of the old buildings that were on the site—and I have also hitched them

on the trucks to give a lift up the steepest grade out of the cellar. That takes an unnecessary strain off the motors.

"To my mind the Autocar is in a class by itself for work like this—its short wheel base makes it easy to operate in the pit where longer trucks are useless. By loading the trucks down in the cellar I did away with my steam shovel, which was fifteen miles from Ardmore (a four-days' round trip).

"Handling this job with Autocars I was able to excavate at the rear first, and the foundations for the new building were being laid there before the digging was half finished."



ONLY ONE PAIR OF HORSES USED ON THIS JOB

*I will be glad to figure
on your Excavating Job*

L. S. FILBERT, Contractor

Widener Bldg., Philadelphia, Pa.

This advertisement of L. S. Filbert, the big Philadelphia contractor, appeared in the Philadelphia Public Ledger on August 17, 1917.

It describes graphically the possibilities of "The Autocar Motor Truck" for contracting.

"The Autocar Motor Truck" is used in every line of business by transportation companies, merchants, coal dealers, farmers, etc., etc.

THE AUTOCAR COMPANY, ARDMORE, PA.

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EFFICIENCY FOR EVERY SERVICE.**

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Some people think that wiring a house or place of business for Electric Light means damage to decorations and fixtures—the ripping out of walls and ceilings.

The fact is, nowadays electric wiring is accomplished well and quickly without noise or dirt, at a minimum of expense and inconvenience. We will obtain wiring estimates for you without charge or obligation to use our service.

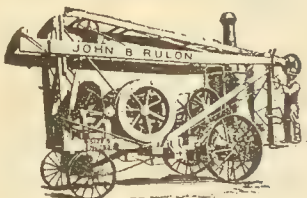


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SURE.

Stick to your work, forget the mob,
Avoid the discontented throng;
For, if you're always on the job
Success is sure to come along.

doors, hot water heating, electric lighting, tile work, metal ceilings. Architect taking bids, due in one week. Bierns & Cylinder, 521 Mifflin street; D. Henwood, 1509 Wood street, and P. Savar, 718 Snyder avenue, Philadelphia, are figuring.

Apartments (int. alt.), southwest corner of Seventeenth and Westmoreland streets, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, Mrs. K. Keachline, on premises. Consists of interior alterations, plumbing, hot water heating, electric lighting, tile work, hardwood floors, partitions, plastering, compo board. Plans completed. Owner will sub-let.

Garage, Second and Arch streets, Philadelphia. Architects, Custer & Gill, Third and

Market streets, Camden, N. J. Owner's name withheld. Brick, 1 story, 60x150 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash, hollow metal skylights, gasoline storage system, waterproofing. Plans in progress. Architects will take bids in a week.

Church (add.), A street and Wyoming avenue, \$50,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Boulevard United Presbyterian Church, care of Rev. L. R. Free, 212 East Wyoming avenue, Philadelphia. Stone, 1 story, 45x100 feet and 15x45 feet, slate and slag roof, pine and cement floors, steam heating, electric lighting, tile and marble work. Plans will be completed in a week.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence (alt. and add.), Overbrook, Philadelphia, \$3,000. Architect, Walter F. Price, 714 Walnut street, Philadelphia. Owner, Alex. Simpson, Jr., 5854 Drexel road, Philadelphia. Stone, 1 story addition, 19x18 feet, tin roof, pine floors, hollow tile, heating (extension) electric lighting. Contract awarded to Milton W. Young, Overbrook, Philadelphia.

Office, Factory and Forge Shop, Fifty-second and Grays avenue, Philadelphia. Architect, private plans. Owners, Taylor Wharton Iron & Steel Co., Widener Building, Philadelphia. Brick, 1 story, 40x80 feet, 91x242 feet, and 120x280 feet, slag roofs, pine floors, steam heating, rolled steel sash, fire doors, metal lath. Contract awarded to Crowell-Ludloff-Little Co., Cleveland, O. (Temporary office, Fifty-second and Grays avenue, care of Walter D. McCormick.)

Bank Building (int. alt.), 5018 Market st., Philadelphia. Architect, Harry G. McMurtre, 1012 Walnut street, Philadelphia. Owners, Drovers & Merchants Bank, 3014 Market street, Philadelphia. Consists of interior improvement, slag roof, hollow tile, marble and terrazzo floors, electric lighting, roof ventilators. Contract awarded to Henry P. Friend, Inc., Boyer Arcade, Norristown, Pa.

Storage House, Paul street, Frankford, Philadelphia, \$12,000. Architects, Stearns, Woodnutt & Schmohl, Stephen Girard Building, Philadelphia. Owners, Keystone Emory Mills, 4325 Paul street, Frankford, Philadelphia. Brick and steel, terra cotta trimmings, 2 stories, 100x36 feet, slag roof, cement and maple floors, rolled steel sash, hollow metal skylights, fire doors (plumbing, heating, electric work, sprinklers, paving, fencing, wire window guards and elevator reserved). Con-

tract awarded to Wm. Eisenberg, Woodbine, N. J.

Office Building, 1620 Washington avenue, Philadelphia, \$2500. Architect, private plans. Owners, Dougherty & Bachram, North American Building, Philadelphia. Brick, 1 story, 32x22 feet, slag roof, pine floors, electric lighting. Contract awarded to Conneen Const. Co., 1737 Filbert street, Philadelphia.

Office Building and Theatre, Broad and Manning streets, Philadelphia, \$280,000. Architect, H. J. Krapp, 114 E. Sixteenth street, New York City. Owners, David Berg, Samuel Tauber and Philip Publiker, care of Bernheimer & Sundenheim, 1001 Chestnut street, Philadelphia. Reinforced concrete, brick and terra cotta; office building, 7 stories, 80x60 feet, slag roof, cement floors; theatre, 1 story, 79x140 feet, steam heating, electric lighting, fire doors, metal lath, elevators, tile, marble and terrazzo work, ornamental iron work. Contract awarded to Ed. Margolies, 19 E. Thirty-third street, New York City.

Connecting Bridge, Navy Yard, Philadelphia, \$6,776. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel, asphalt and felt roof, plank floors. Contract awarded to McCloskey & Bahls, 1620 Thompson street, Philadelphia.

Sewage Disposal Plant (add.), Byberry, Philadelphia, \$87,870. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Health & Charities, Dr. Wilbur Krusen, Director, room 584, City Hall, Philadelphia. Reinforced concrete and stone, Emseher and doding tank, sludge beds and sprinklers, filters, wire cloth. Contract award-

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ed to F. W. Mark Const. Co., Finance Building, Philadelphia.

Store (alt.), 1318 Chestnut street, Philadelphia, \$5,000. Architects, Seymour & Schomewald, Grand Central Terminal, New York. Owners, Hanan & Sons, on premises. New metal bulk, mezzanine floor and interior alterations, wood panels, ornamental grilles, cabinet work, tile and marble work, hardwood and pine floors, steam heating, electric lighting. Contract awarded to Wm. F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

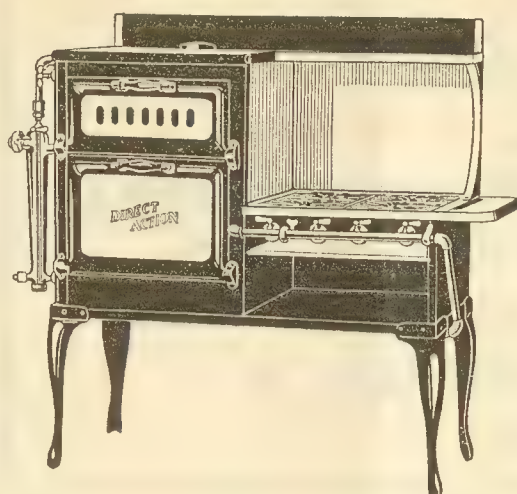
Club House and Dwelling (fire repairs), Eighty-third and Tineum avenue, Philadelphia. Architect, private plans. Owners, South Philadelphia Schutzen Verein, on premises. Exterior and interior alterations, new porch, slag and tin roof, maple floors, roof ventilators, plastering, electric work, steam heating. Contract awarded to Wm. F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia.

Garage (alt. and add.), Wissahickon avenue and Clivedon street, Philadelphia. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Consulting decorator, Oscar E. Mertz, Commercial Trust Building, Philadelphia. Owner, Adolph Loeb, on premises. Brick and hollow tile, 2 stories, 22x200 feet, slate roof, pine and concrete floors, steam heating. Contract awarded to Standard Const. Co., 1713 Sansom street, Philadelphia.

Factory Building and Power House, Memphis and Tioga streets, Philadelphia, \$35,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Treen Box Co., on premises. Brick (slow burning). Factory, 2 stories and basement, 60x100 feet; power house, 1 story, 30x60 feet, slag roof, steam heating, electric lighting, metal lath, cement and plank floors. Contract awarded to John F. Davies, 1021 Herbert street, Philadelphia.

Sales and Service Building, 1315-17 Vine street, Philadelphia, \$10,000. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Auto Radiator Co., on premises. Brick and steel, 2 stories, 30x80 feet, slag roof, pine floors, steam heating, electric lighting, hollow metal skylights, metal lath. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Colonnade Hotel (int. alt.), southwest corner of Fifteenth and Chestnut streets, Philadelphia.



THE DIRECT ACTION

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725-26 Commercial Trust Building, Philadelphia

delphia, \$3,900. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Bonwit, Teller & Co., southwest corner of Thirteenth and Chestnut streets, Philadelphia. Brick and stone, alterations to first and second floors, oak and pine floors, tile and marble work, ornamental iron work. Contract awarded to Basch & Co., 1426 South Front street, Philadelphia.

Warehouse, Eightieth street and Island

road, Philadelphia, \$40,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owner, Richard L. Wallace, 120 Chestnut st., Philadelphia. Brick and reinforced concrete, 1 story, 46x275 feet, slag roof, cement and maple floors (lighting and heating reserved), rolled steel sash, fire doors, metal window guards, ornamental iron work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

PENNSYLVANIA

Construction News

Barn, Maclay and Cameron streets, Harrisburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Board of Public Grounds and Buildings, State House, Harrisburg, Pa. Concrete and frame, 2½ stories, 75x40 feet, slate roof, electric lighting, yellow pine floors, metal window guards (plumbing, heating, ventilating and electric work reserved). Plans completed. Owners taking bids, due September 11th. Beard Construction Co., of Reading, Pa., is figuring.

Factory (alt.), Maple and Chestnut streets, Reading, Pa. Architect, C. J. Young, Reading, Pa. Owners, J. U. Fehr & Son, Reading. Consists of concrete work and structural steel reinforcing. Plans in progress.

Garage, Front and Mulberry streets, Harrisburg, Pa. Architects, Kelker & Johnson, Calder Building, Harrisburg, Pa. Owners, Harrisburg General Hospital, Harrisburg, Pa. Brick, 2 stories, 26x28 feet, steam heating, electric lighting, slag roof, cement floors, gasoline storage and wire work. Owners taking bids, due as soon as possible. Those figuring are: W. S. Miller and F. Saussman, of Harrisburg, Pa.

Store and Apartments (alt. and add.), Carlisle, Pa. Architects, Fahnestock & Rauden-

baugh, Patriot Building, Harrisburg, Pa. Owner, H. T. Herman, Carlisle, Pa. Brick and steel, 2 stories, 35x16 feet, hot water heating, electric lighting, slag roof, pine floors, waterproofing, hollow metal skylights. Owners taking bids, due September 11th. Those figuring are: H. A. Lackey, James Porter, Thos. Wetzel, Hemminger Bros., D. E. Brindel and Chas. Brown, all of Carlisle.

School (add.), Front and Paxton streets, Harrisburg, Pa. Architect, M. M. Bair, 1911 Derry street, Harrisburg, Pa. Owners, School Board of Harrisburg, D. D. Hamunbaugh, secretary, 121 Chestnut street, Harrisburg, Pa. Brick, 2 stories, 66x66 feet, steam heating, electric lighting, tile roof, pine floors, metal lath. Owners have received bids.

Club House, Edge Hill, Montgomery Co., Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Lu Lu Temple Country Club, Fitzwatertown, Montgomery County, Pa. Stone, 2 stories and basement, 185x85 feet, shingle roof, maple, pine and composition floors (lighting, heating and plumbing reserved), tile work, metal lath, metal weather stripe, waterproofing. Revised plans in progress.

High School, Eighth and Fulton streets,

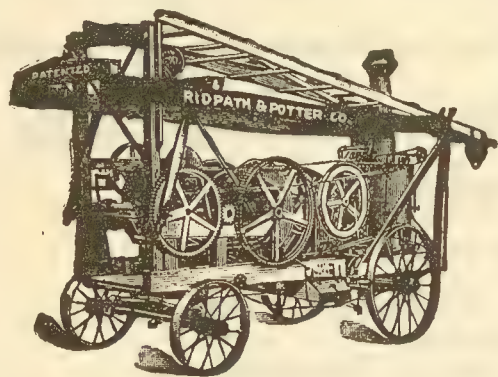
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Chester, Pa., \$500,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, City of Chester, Board of Education, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone and reinforced concrete, 4 stories and basement, 240x115 feet, slate and J. M. or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamein doors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work, ventilators and furniture reserved). Owners taking bids, due September 21st. John R. Wiggins, Inc., Otis Building, and Cramp & Co., Denekla Building, are figuring.

Farm Buildings, near Chestnut Hill, Pa. Architect, Albert Kelsey, Perry Building, Philadelphia. Owners, Carson College for Orphan Girls, Witherspoon Building, Philadelphia. Frame and hollow tile, 1 story, barn, 184x152 feet; chicken house, 120x20 feet, shingle roofs, cement floors, electric lighting, roof ventilators. Plans in progress. Architect ready for bids in three weeks.

Church (int. alt.), Conshohocken, Pa. Architect, Geo. I. Lovatt, 416 Walnut street, Philadelphia. Owners, St. Matthew's R. C. Church, care of Rev. Jas. P. Parker, Conshohocken, Pa. Consists of tile and marble work, wainscoting and metal lath. Architect has received bids.

Toilet and Locker Building, Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, purchasing department, Bethlehem, Pa. Brick and steel, 1 story and basement, 160x30 feet, steam heating, electric lighting, slag roof, cement floors, rolled steel sash. Plans in progress. Owners are ready for bids.

Drug Store (add.), Northampton, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Dr. C. E. Miexell, Northampton, Pa. Brick, 3 stories, 50x50 feet, hot water or vacuum heating, electric lighting, slag roof, pine floors, tile and marble work,

metal bulks (heating, plumbing and electric fixtures reserved). Owner has received bids.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Charles P. Lynn, Bethlehem, Pa. Brick and frame, 2½ stories, 35x33 feet, electric lighting, slate roof, pine floors (hot water heating reserved). Plans in progress.

Barn Building, Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, C. A. Buck, Bethlehem, Pa. Brick and frame, 2 stories, 53x26 feet, slate roof, pine floors. Plans in progress.

Freight Station (alt. and add.), Allentown, Pa. Architects, Ruhe & Lange, Allentown, Pa. Owners, Lehigh Valley Transit Co., Allentown, Pa. Brick, 1 story, 58x60 feet, slag roof, pine floors, electric lighting. Architects have received bids.

Store Buildings (2) (alt. and add.), Eighth and Hamilton sts., Allentown, Pa. Architect, E. M. Pickin, Hunsicker Building, Allentown, Pa. Owner, Hersh Estate, Eighth and Hamilton streets, Allentown, Pa. Brick, 3 stories, electric lighting, Barrett roof, pine floors, hollow tile, metal lath, metal bulks. Plans in progress. Owner will sub-let.

Residence, West Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, E. D. Jerome, West Bethlehem, Pa. Frame, 2½ stories, 30x40 feet, tile work, shingle roof, pine and oak

Home, Fourth and Hamilton streets, Allentown, Pa. Architect, L. S. Jacoby, Commonwealth Building, Allentown, Pa. Owners, Rescue Mission, Allentown, Pa. Brick and hollow tile, 3 stories and basement, 40x100 feet, composition roof, gas and electric lighting, pine and composition floors, hollow tile, iron stairs,

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floors (hot water heating, electric work, plumbing and hardware reserved). Architect taking bids, due September 14th. Hemmersey & Son, Butz & Clader, and W. A. Stein & Co., all of Allentown, Pa., are figuring.

Bungalow, Pocono Mountains, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owner's name withheld. Stone, 1 story, 30x50 feet. Plans in progress.

School (add.), Abington Township, Montgomery County, Pa. Architects, Heacock & Hokanson, 118 Chestnut street, Philadelphia. Owners, School Board of Abington Township, W. F. Wooley, secretary School Board, Jenkintown, Pa. Stone and brick, 2 stories and basement, 92x55 feet, slate roof, concrete, maple and composition floors, metal lath, dampproofing (plumbing, lighting, heating and ventilating reserved). Owners taking bids, due September 17th. Thomas C. Trafford, 1613 Sansom street; Wark-Yardley Co., 1737 Filbert street; Specht & Sperry, Heed Building; Albert Zellfelder, 151 South Broad street, Philadelphia; Fesmire Bros., Willow Grove, Pa., and W. John Stevens, Inc., Wyncote, Pa., are figuring.

Residences (57), Chester, Pa., \$250,000. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, Reed Syndicate, care of architect. Brick, stone, hollow tile and plaster, 2½ stories, 20 foot front. Plans in progress.

PENNSYLVANIA Contracts Awarded

dumbwaiters (vapor heating and electric work reserved). Contract awarded to W. H. Gange-were, Bank Building, Allentown, Pa.

Chapel Edgeboro (Bethlehem), Pa., \$10,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Moravian Congregation, Emil Bishop, chairman of

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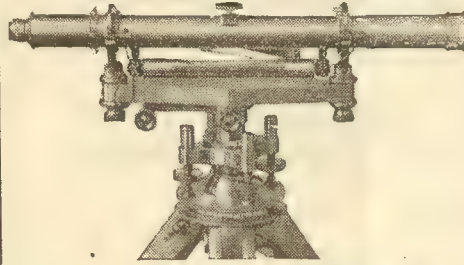
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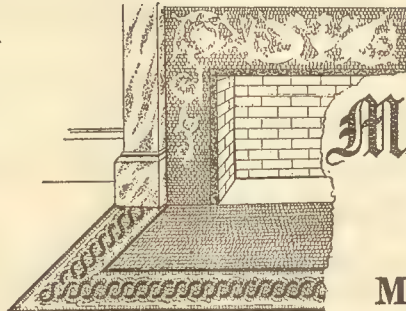
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Building Committee, Edgeboro, Pa. Brick, 1 story, 30x45 feet, hot water heating, electric lighting, slate roof, wood floors. Contract awarded to F. F. Speck, Bethlehem, Pa.

Foundry Buildings, Easton, Pa. Architect, H. J. Wenzelberger, Easton, Pa. Owner, Jacob Wilson Estate, care of J. Wilson Harrison, Easton, Pa. Hollow tile, 1 story, 60x130 feet and 35x59 feet, steam heating, electric lighting, rolled steel sash and skylights, fire doors, slag roof, cement and pine floors. Contract awarded to Butz & Clader, Allentown, Pa.

Residence, Merion, Pa., \$12,000. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, name withheld. Stone, frame and plaster, 2½ stories, 40x26 feet, wing, 19x12 feet, shingle roof, hot water heating, electric lighting, tile work, oak floors. Contract awarded to Frank H. Mahan, Ardmore, Pa.

Residence (alt.), Bryn Mawr, Pa. Architect, D. Krickerbacker Boyd, Otis Building, Philadelphia. Owner, Dr. Jos. C. Guernsey, 1923 Chestnut street, Philadelphia. Consists of general alterations, canvass roof, hardwood floors, plumbing, vapor heat, tile and marble work. Contract awarded to W. D. Smedley, Narberth, Pa.

Barn (alt.), Whitmarsh, Pa. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner, C. Bradford Fraley, Whitmarsh, Pa. Consists of general interior alterations, carpenter and cement work. Contract awarded to Geo. Amberg, Jr., Blue Bell, Pa.

Garage, Seybert Farms, Meadowbrook, Pa. Architect, Francis G. Caldwell, Stephen Girard Building, Philadelphia. Owner, John H. Daingerfield, care of architect. Terra cotta, 1½ stories, 29x23 feet, shingle roof, steam heating, electric lighting, cement and pine floors. Contract awarded to Fesmire Bros., Willow Grove, Pa.

Freight Station, Brownsville, Pa. Architects, Price & McLanahan, Bellevue Court Building, Philadelphia. Owners, The Monongahela Railway Co., Brownsville, Pa. Reinforced concrete, brick and terra cotta, 1 story and 2 stories, 240x64 feet and 56x108 feet, asphalt roof, steam heating, electric lighting, marble and terrazzo work, mastic floors, rolled steel and hollow metal sash, fire, kalamein and hollow metal doors, ornamental iron work, hol-

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low tile, metal lath, elevators, waterproofing. Contract awarded to Wm. F. Trimble & Sons Co., 1719 Pennsylvania avenue, Pittsburgh, Pa.

Barn, Fallsington Township, Penns Manor, Pa., \$14,000. Architect, J. Osborne Hunt,

Trenton, N. J. Owner, John E. Thropp, Trenton, N. J. Frame, 2 stories, 60x120 feet, shingle roof, concrete floors, electric lighting, hollow tile, roof ventilators, waterproofing. Contract awarded to A. S. Hibbs, Fallsington, Pa.

NEW JERSEY Construction News

Residence and Garage, Edgewater Park, N. J. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, George Rhawn, Beverly, N. J. Brick or frame, 2½ stories, 42x55 feet; garage, 1 story, 19x24 feet, shingle roof, steam heating, electric lighting, tile work, cement and hardwood floors. Plans completed. Architect ready for bids.

Girls' Dormitory Building, Burlington, N. J., \$20,000. Architect, J. H. Bent, Capitol Building, Trenton, N. J. Owners, Board of Managers, School for Colored Youths, Bordentown, N. J. Brick, 2 stories, 40x60 feet, slag roof (hot water heating and plumbing reserved), electric lighting, pine floors. Plans in progress.

Restaurant (alt. and add.), East Hanover street, Trenton, N. J., \$2,000. Architect, Wm. P. Endebrock, American Mechanics' Building, Trenton, N. J. Owner, Edw. Hayden, on premises. Consists of general interior alterations, 1 story. Plans in progress. Architect ready for bids.

Stable, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, R. C. Kolb, Trenton, N. J. Brick, 1 story, 30x70 feet, slag roof (hot water heating reserved), electric lighting, cement floors. Plans about completed. Architects ready for bids.

School, Yardville, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board, Hamilton Township, Mercer County, N. J. Brick, 2 stories (four rooms), slate roof, pine floors, electric lighting. Owners taking bids, due September 24th. Burton & Burton, I. Harper Clayton, and S. W. Mather & Son, all of Trenton, N. J., are figuring.

Incinerator, City Crematory, Southard st., Trenton, N. J. Engineer, A. C. Gregory, City Hall, Trenton, N. J. Owners, Board of Commissioners, City Hall, Trenton, N. J. Brick and steel, 2½ stories, 48x50 feet, slag roof, electric lighting, rolled steel sash (plumbing

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reserved). Owners taking bids, due September 28th. James H. Morris and S. W. Mather & Son, both of Trenton, N. J., are figuring.

Bank Building, corner Broadway and Carman streets, Camden, N. J., \$60,000. Architect, Paul A. Davis, 3d, 1713 Sansom street, Philadelphia. Owners, Merchants' Trust Co., on premises. Marble, brick and reinforced concrete, 1 story and basement and mezzanin, 39x80 feet, slag roof, cement and pine floors, hollow tile, steam heating, electric lighting, tile and marble work, hollow metal sash, fire doors, ornamental iron work, metal lath, roof ventilators, metal windows, waterproofing, wire work. Architect taking bids, due September 20th at 10 o'clock. The following are figuring: Cramp & Co., Denekla Building; H. E. Baton and Chas. McCaul Co., 1713 Sansom street; Frank G. Stewart, 1619 Sansom street; Warren, Moore & Co., Colonial Trust Building; Frank E. Wallace, 1226 Chancellor street; H. E. Grau Co., 1707 Sansom street, Stacey Reeves & Sons, 2011 Market street, all of Philadelphia; Geo. Bachmann, 19 North Thirtieth street; James W. Draper, 436 Hadson avenue; Mockett Const. Co., Sixth and Market streets, all of Camden, N. J.

Y. M. C. A. Building, Rahway, N. J. Architect, John F. Jackson, 1328 Broadway, New York City. Owners, Y. M. C. A., Rahway, N. J. Brick and reinforced concrete, 3 stories, 91x131 feet, slate and tile roofs, electric lighting (heating reserved), tile and marble work, rolled steel sash, hollow metal skylights, fire doors and escapes, maple, cement and pine floors, metal lath, waterproofing, dampproofing, ornamental iron work. Owners taking revised bids, due September 14th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, is figuring.

Inn (alt.) and Garage, Broad street, Glassboro, N. J. Architect, Harry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners,

Franklin Inn, on premises. Consists of general interior and exterior alterations to inn; garage stucco or cement block, 1 story, 60x120 feet, slag roof, steam heating, electric lighting, hollow metal skylight, cement floors (gasoline storage system reserved). Architect has received bids.

School, Yardville, N. J. Architects, W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board of Hamilton Township, care of Mr. W. A. Robinson, Hamilton Township, Mercer Co., N. J. Brick, 2 stories, 4 rooms, slate roof, pine floors, electric lighting. Plans about completed. Owners ready for bids.

School, Mt. Laurel, Burlington Co., N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owners, School Board of Laurel, care of Thos. Earling, Moorestown, N. J. Brick, 2 stories and basement, 26x60 feet, steam heating, electric lighting, slate roof, pine floors, waterproofing. Plans about completed. Owners ready for revised bids.

Power House, Plainfield, N. J. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bemont-Pond Co., 111 Broadway, New York City. Reinforced concrete, brick, and terra cotta, 1 story, 108x89 feet, cement floors, hollow metal sash and doors, ornamental iron work, waterproofing, dampproofing, wire work. Architects taking bids, due September 12th. H. E. Baton, 1713 Sansom street, is figuring.

School, Oxford, N. J., \$17,000. Architect, H. J. Wenzelberger, Easton, Pa. Owners, School Board of Oxford, Oxford, N. J. Brick, 2 stories, 40x70 feet, slate roof, pine floors (steam heating, electric lighting and plumbing reserved). Owners taking bids, due September 17th. Butz & Clader, Allentown, Pa.; J. T. Skinner, Hackettstown, N. J.; J. M. Banahan, Phillipsburg, N. J.; Mr. Gardner, Belvidere,

N. J.; Mr. Flocker, Elizabeth, N. J., and Frank Stone, Stewardville, N. J., are figuring.

School (add.), near Riverton, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Cinnaminson School Board, Benj. Lippincott, secretary of School Board, Cinnaminson, N. J. Brick, 2 story addition, 23x64 feet, slate roof, pine floors. Plans in progress. Ready for bids in ten days.

New Jersey Contracts Awarded

Garage, Front and Yorke streets, Camden, N. J., \$4,500. Architects, Moffett & Stewart, 30 North Third street, Camden, N. J. Owner, Mr. Thomas E. French, care of architect. Brick and tile, 1 story, 20x100 feet, slag roof, cement floors, metal lath, electric lighting, roof ventilators, rolled steel skylights. Contract awarded to Lewis T. West, 828 Broadway, Camden, N. J.

Gymnasium (add.), Trenton, N. J. Architect, private plans. Owners, Ewing Church, Trenton, N. J. One story, 76x36 feet. Contract awarded to John Ross, Trenton, N. J.

Carpenter and Pattern Shop, New York avenue, Trenton, N. J. Architect, R. A. Schuman, 932 Lambertson street, Trenton, N. J. Owners, Trenton Malleable Iron Co., New York avenue, Trenton, N. J. Brick, 2 stories, 28x128 feet, slag roof, pine floors, rolled steel sash, electric lighting (elevator and heating reserved). Contract awarded to Stephen Diekneit, 440 W. Hanover street, Trenton, N. J.

Fire House, Oil House and Comfort Station, Brunswick ave. and Pine st., Trenton, N. J., \$29,917. Architect, W. P. Endebrook, American Mechanics Building, Trenton, N. J. Owners, City of Trenton, Department of Public Safety, Trenton, N. J. Brick, 2 stories, 46x66 feet, slag roof, pine floors (hot water heating, plumbing and electric work reserved). Contract awarded to Harry Hilton, Trenton, N. J.

Store and Loft Building (alt.), 121 East State street, Trenton, N. J. Architects, Kleeman & Fowler, Trenton, N. J. Owner, William Darling, on premises. Brick, 3 stories, 88x120 feet, slag roof, pine and tile floors, electric lighting, rolled steel sash, fire doors, metal lath, fire escapes (elevator, electric fixtures, hot water heating and plumbing reserved). Contract for carpenter work awarded to I. Harper Clayton, Mechanics Building, Trenton, N. J., and mason work to S. Mather & Son, Greenwood and Canal streets, Trenton, N. J.

School, Hamilton Township, N. J., \$40,000. Architect, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board of Hamilton Township, Mercer Co., N. J., care of Mr. W. A. Robinson, Hamilton Township, Mercer Co., N. J. Brick, 2 stories, 8 rooms, slag roof, maple floors, tile work, rolled sash, iron stairs, metal ceilings (heating, plumbing and electric lighting reserved). Contract awarded to Burton & Burton, American Mechanics Building, Trenton, N. J.

Church, Wrightstown, N. J. Architect, Wm. C. Pritchett, 416 Walnut street, Philadelphia. Owners, St. George's P. E. Chapel, care of Rev. Karl Morgan Block, rector, Wrightstown, N. J. Frame, 1 story, 60x150 feet, ready roofing, electric lighting, stove heating. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Residence (alt. and add.), Sommerville, N.

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J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owner, Chas. A. Wooral, 725 Broadway, New York City. Frame, 2½ stories, kitchen addition (heating extension), shingle roof, pine and concrete floors, electric lighting, plumbing. Contract awarded to Hall Bros., Somerville, N. J.

Maryland Construction News

Bungalow, Harmon, Md., \$2,500. Architect, Fred E. Beall, 306 St. Paul street, Baltimore, Md. Owners, American Gardens Co., 2 East Lexington street, Baltimore. Frame, 1½ stories, 24x43 feet, shingle roof, hot air heating, electric lighting, plumbing. Plans completed. Owner is ready for bids.

Theatre, Ice Skating Rink, etc., North avenue, east of Charles street, Baltimore, Md. Architects, Blanke & Zink, Equitable Building, Baltimore. Owners, Homewood Amusement Co., Edw. C. Sandell, 3901 Brookline avenue, Baltimore, Md. Brick, stone and terra cotta, 65x170 feet, steam heating, electric lighting, steel and iron work, ventilators, plastering, painting, plumbing, ornamental iron work. Plans in progress.

Store and Apartments (alts.), 520 Columbia avenue, Baltimore, Md., \$3,000. Architect, J. C. Spedden, 2715 Harlem avenue, Baltimore. Owner, Dominick Citrano, 518 Columbia avenue, Baltimore. Consists of general interior alterations, new flush bulks, new floors, metal ceiling, electric work. Owner is ready for bids.

Residence, Forrest avenue and Dennison street, Baltimore, \$6,500. Architect, John B. Forsythe, 232 St. Paul street, Baltimore. Owner, Francis E. Yewell, 3506 Fairview avenue, Baltimore. Frame, shingle roof, hot water heating, electric lighting, plastering, plumbing. Owner will sub-let.

Warehouse, Baltimore, Md. Architect, M. A. Long & B. & O. R. K. Baltimore, Md. Owners, Baltimore and Ohio R.R. Co., Baltimore, Md. Reinforced concrete, 10 stories, 560x159 feet, concrete roof and floors, rolled steel sash and skylights, fire doors, ornamental iron work, elevators, safety treads, waterproofing, dampproofing, wire work. Owners have received bids.

Store (alt. and add.), 933-37 N. Gay street, Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, O. Marcus & Sons, on premises. Brick, 2 stories and basement, slag roof, pine and cement floors (heating and work reserved), tile and marble work, metal lath, metal ceilings. Architect taking bids, due September 19th. The following are figuring: Consolidated Eng. Co., Herbert & Prodoehl, B. F. Bennett Bldg. Co., Henry L. Maas and Fred Decker & Son, all of Baltimore, Md.

Maryland Contracts Awarded

Residence, Overland avenue and Harford road, Baltimore, Md., \$7,000. Architect, M. MacCallum, Baltimore, Md. Owner, Henry A. Peters, 320 Kenwood avenue, Baltimore, Md. Frame, 2½ stories, 30x34 feet, slate roof, hot water heating, electric lighting, painting, plumbing, tile work. Contract awarded to Pliny P. Day, 163 Montebello Terrace, Baltimore, Md.

Building (remodeling), 229-33 North Gay

street, Baltimore, Md., \$3,500. Architect, private plans. Owners, Baltimore Hub Wheel Manufacturing Co., Fallsway and Gay sts., Baltimore. Consists of general interior alterations, electric work and plumbing. Contract awarded to R. B. Mason, 308 West Madison street, Baltimore, Md.

Building (alts.), 131 West North avenue, Baltimore, Md. Architect, Wm. H. Emory, Munsey Building, Baltimore. Owners, Union Transfer Co., Union Station, Baltimore, Md. Brick work, millwork, painting, rolling steel doors, plastering, electric wiring. Contract awarded to D. M. Andrews Co., Twenty-sixth street and Mt. Vernon avenue, Baltimore, Md.

Bank, Prince Frederick, Md., \$4,000. Architect, Leon Wilde Crawford, Wilmington, Del. Owners, Prince Frederick Bank, care of O. B. Smoot, Prince Frederick, Md. Brick, electric lighting, steam heating. Contract awarded to James L. Robinson, 218 East Lexington street, Baltimore.

Dwelling, Garage and Dairy Barn, Glyndon, Worthington Valley, Baltimore County, Md. Architects, Smith & May, 113 Calvert Build-

ing, Baltimore. Owners, Mr. and Mrs. G. Bernard Fenwick, Stock Exchange Building, Baltimore. Hollow tile and stucco, 25x65 feet, 33x85 feet and 33x65 feet, slate roofs, steam heating, electric lighting, plastering, painting, plumbing, concrete work, stone walls. Contract awarded to Frairie & Haigley, 22 Clay street, Baltimore.

Residence and Garage, 2340 Harford avenue, Baltimore, Md. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore. Owner, Wm. H. Perry, 1802 Longwood street, Baltimore. Brick, 2 stories, 15x24 feet, and 1 story, 30x118 feet, tin or slag roof, steam heating, hardwood and cement floors, electric lighting. Contract awarded to H. W. Fox, 2917 Greenmount avenue, Baltimore.

Factory, Bush street, and B. & O. R. R., Baltimore, Md., \$15,000. Engineer, Herman F. Doelman, American Building, Baltimore. Owners, McNamara Bros. Co., Ransstead's Wharf, Baltimore. Corrugated iron sides, steel frame, felt roof, concrete work. Contract awarded to Chesapeake Iron Works, Westport, Md.

Miscellaneous Construction News

Store House, Hampton Roads, Va., \$399,500. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. H. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and hollow tile and brick, 5 stories, 118x358 feet, slag roof, pine floors, steam heating, electric lighting, rolled steel sash and skylights, fire, kalamain and hollow metal doors, elevators, wire work. Contract awarded to Cramp & Co., Denckla Building, Philadelphia.

Residence, Centerville, Del. Architect, E. C. May DuPont Building, Wilmington, Del. Owner, name withheld. Frame, 2 stories, 60x28 feet, hot air heating, electric lighting, shingle roof, pine floors. Architect has received bids.

Storage House, Third and Greenhill streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owners, Wilmington Leather Co., Third and Greenhill streets, Wilmington, Del. Brick, 1 story, 25x80 feet, electric lighting, slag roof, cement floors, rolled steel sash, rolled steel fire doors. Architect has received bids.

Laboratory Building, Wilmington, Del. Architects, Dougherty & Thompson, Ford Building, Wilmington, Del. Owners, Pyrites Co., Ltd., Christianna avenue, Wilmington, Del. Hollow tile and plaster, 1 story, 50x33 feet, electric lighting, composition roof, pine floors. Plans completed. Architects have received bids.

Garage and Chauffer's Quarters, near Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, C. B. Holladay, Wilmington, Del. Hollow tile and stucco, 1½ stories, 25x50 feet, steam heating, electric lighting, shingle roof, concrete and pine floors. Contract awarded to C. J. Dougherty, 2515 W. Eighteenth street, Del. (Not yet signed.)

Church, Franklin and Elm streets, Wilmington, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owners, Baptist City Mission Society, Thos. Taylor, chairman of building committee, Wilmington, Del. Stucco, 1 story and basement, 52x36 feet, hot air heating, electric lighting, slate roof, pine floors. Contract awarded to Martin Tomczyk, 431 S. Broome street, Wilmington, Del.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 720 South Fifty-second street, \$365. M. Toft (O), on premises. W. H. Morris (C), 5234 Bromall avenue. Brick, 1 story, 9x16 feet.

Garage and Dwelling, 8110-12 Devon street, \$7,000. Lorinzon Bros. (O and C), 17 East Abington avenue. Stone and brick, 2 stories, 34x22 feet, tin roof, hot water heating.

Office Building, \$10,000, and Factory, \$50,000, Fifty-second and Gray's avenue. Taylor Wharton (O), Widener Building. Crowell Lundoff & Little Co. (O), Cleveland, O. Brick,

1 story, 40x60 feet, slag roof; brick, 1 story, 91x242 feet, slag roof.

Dwelling, Fairthorn and Ridge avenues, \$2,800. R. I. Richards (O), 359 Hermitage street. C. M. Swartley (C), 6835 Ridge avenue. Brick and frame, 2 stories, 16x11 feet, slate roof.

Garage, 182 Green Lane, \$300. Albert Foster (O), on premises. C. M. Swartley (C), 6835 Ridge avenue. Brick, 1 story, 12x22 feet, slate roof.

Dwellings (9), Mansion and Leverington

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streets, \$19,200. Martin H. Keller (O), 326 Dupont street. Wm. E. Keller (C), 480 Harmon Road. Brick, 2 stories, 16x23 feet, slag roof, hot air heating.

Office and Theatre, Broad and Manning, \$280,000. Berg & Publicker (O), 1001 Chestnut streets. Ed. Margolies (C), 19 East Thirtieth street, New York. Brick and reinforced concrete, 7 stories front, rear 1 story. Theatre, 80x60 feet, 79x140 feet, slag roof.

Garage, 1435 South Broad street, \$600. A. Rechizza (O), on premises. E. Holland (C), Upper Darby, Pa. Brick, 1 story, 13x19 feet, slag roof.

Dormitories, 120 to 126 South Thirty-fourth street, \$5,000. University of Pennsylvania

(O), Thirty-fourth and Walnut streets. P. Gormly Co. (C), 155 North Tenth street. Steam heating installation.

Dwelling, Cottman and Montoner streets, \$2,650. A. DeMarco (O), 7320 Doucan Road. Wm. Isles & Son (C), 1103 Levick street. Brick, 2 stories, 14x46 feet, slag roof.

Factory, Race and Thirtieth streets, \$138,960. Pennsylvania Railroad Co. (O), Broad Street Station. Wm. Chas. Doll Co. (C), Broad and Race streets. Reinforced concrete and brick, 3 stories, 75x125 feet, slag roof.

Open Shed, 1712-18 North Ninth street, \$3,000. Steward Stevens Iron Works (O and C), 1726 North Ninth street. Steel truss open on three sides, 65x60 feet, slag roof.

South Nineteenth street. Brick, 1 story, 16x30 feet, tin roof.

Garage, 2007 North Carlisle street, \$370. H. Byers (O), 2006 North Broad street. M. Moister & Co. (C), 3931 South Fifth street. All steel, portable, 16x18 feet.

Stack, Stokley and Westmoreland streets, \$1,000. Philadelphia Drying Mach. Co. (O), 6721 Germantown avenue. Driscoll Co. (C), Stock Exchange Building. Brick and concrete, 60 feet high.

Garage, 4908 Wayne avenue, \$1,000. A. Pasquarello (O and C), on premises. Brick, 1 story, 12x19 feet, slag roof.

Store and Dwelling, 2433 North Sixth street, \$500. J. Hadik (O), 325 East Thompson street. H. C. Zingroff (C), 2527 North Seventh street. New brick front.

Stores and Dwelling, 2803-05 Kensington avenue, \$2,000. W. Cliffe (O), 4420 Paul st. Buzby & Proper (C), 1658 Mutg street, Frankford.

Store and Dwelling, Sixty-first and Woodland avenue, \$1,000. Charles I. Spayd (O and C), 20 North Fiftieth street. Move building.

Garage, 2919 Salmon street, \$2,500. J. McAbber (O), 2916 Richmond street. E. F. Judge (C), 3003 Richmond street. Brick and iron, frame, 1 story, 20x100 feet, slag roof.

Store and Dwelling, Twelfth and Wallace streets, \$1,025. A. Falber (O), on premises. J. Stam (C), 1233 South Sixteenth street. New flush bulk and alterations.

Store and Dwelling, 2206 Market street, \$600. George P. Obert (O), 2204 Market st. Wm. Ferguson & Son (C), 405 South Twenty-first street. New flush bulk.

Dwelling, Linden and Frankford avenue, \$2,800. M. J. Williams (O and C), 9228 Walker street. Frame, 1 story, 28x40 feet, shingle roof.

Coal Trestle, Twenty-seventh and South streets, \$15,000. George B. Newton Coal Co. (O), Franklin Bank Building. Armstrong & Latta Co. (C), Land Title Building. Repair trestle.

Store and Dwelling, Fifty-second and Filbert streets, \$4,950. John Bartholomae (O), 26 North Fifty-second street. E. E. Hollenbach, Inc. (C), 1904 Brandywine street. Brick, three-story addition, 16x16 feet, slag roof.

Proposals

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TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. D., Sept. 4, 1917.—Sealed proposals will be opened in this office at 3 P. M., Oct. 15, 1917, for the construction of the United States post office at Waynesboro, Va. Drawings and specifications may be obtained from the custodian of the site at Waynesboro, Va., or at this office, in the discretion of the Supervising Architect.—Jas. A. Wetmore, Acting Supervising Architect.

Alterations and Additions

Dwelling, 261 South Seventeenth street \$800. Dr. Fielding O. Lewis (O), on premises. R. C. Ballinger (C), 218 North Thirteenth street. Alterations.

Store and Dwelling, 4330-32 Germantown avenue, \$2,000. D. Weiss (O). James H. Walter (C), 168 East Walnut Lane. Brick, 1 story, 3x26 feet and 14x14 feet, alterations.

Tank, Fourth and Cambria streets, \$7,000. Stead & Miller Co. (O), 50 Church street, New York. Pittsburgh Des Moines Steel Co. (C). Steel water tank, 35,000 gallons.

Office, 2821 Richmond street, \$1,200. Philadelphia and Reading Railway Co. (O and C), Reading Terminal. Brick, second story, 15x18 feet, toilet and dressing room.

Open Shed, Swanson and Jackson streets, \$330. Becher Smith Page Co. (O), Water and Snyder avenue. John Hausman Co. (C), 113 Tasker street. Open shed, 30x64 feet, slag roof.

Bank and Office, Broad and Columbia avenue, \$960. Columbia Trust Co. (O), on premises. F. L. Hoover & Son (C), 1023 Cherry street. Alterations.

Dwelling, 1339 South Opal street, \$1,000. D. F. McAllister (O), 1935 Reed street. Geo. Hill (C), 5721 Springfield street. Brick, 2 stories, 16x25 feet.

Garage, 4820 Reno street, \$900. R. B. McCleish (O), 5624 Larchwood avenue. H. A. Hilaman (C), Oxford, Pa. Alterations, and cement floor.

Dairy, 1204 Pine street, \$400. Wm. Kelly & Son (O and C), Twelfth and Pine streets. Water tank, 3,100 gallons.

Store and Dwelling, 929 East Passyunk avenue, \$725. C. Meyer (O), on premises. A. E. Warren (C), 28 North Fifth street. Brick, 1 story, 6x12 feet, tin roof.

Dwelling, Buckins and Emery streets, \$935. J. Kirner (O), 2771 Ash street. W. Reinas (C), 2667 Bridge street. Brick, 2 stories, 18x12 feet, slag roof.

Store and Dwelling, 307 West Oxford st., \$730. H. Geiger (O). Mays Landing, N. J. F. A. Stoll (C), 1432 Germantown avenue. Brick, 1 story, 10x12 feet, slag roof.

Stable and Dwelling, 431-33 Lombard street, \$3,000. Nathan Levin (O and C), on premises. Brick, 1 story, 32x62 feet.

Garage, 1306-08 West Girard avenue, \$900. F. G. English (O), 1608 North Carlisle street. Paul J. Hoft (C), 245 South Eighth street. Alterations and additions to steam heating.

Machine Shop, Sixtieth and Larchwood avenue, \$2,500. Wm. Pilton (O and C), 5832 Ashland street. Brick additions. First floor, 40x7

feet; second floor, 55x24 feet; third floor, 55x24 feet, slag roof, steam heating.

Bakery, 209-11 North Fifth street, \$750. H. Roher (O), on premises. A. M. Barclay (C), 113 North Sixth street. To install one 15-horse vertical steam boiler.

Factory, Twenty-fifth and Locust streets, \$85,000. Lanston Monotype Co. (O), Twenty-fourth and Locust streets. Wm. Steele & Sons Co. (C), 32 South Fifteenth street. Reinforced concrete and brick, 5 stories, 44x122 feet, slag roof.

Factory, Summerset and Tulip streets, \$2,000. J. D. Glover & Sons Co. (O). John F. Welsh (C), 1723 Girard avenue. Brick, second story addition, 27x48 feet.

Store and Dwelling, 2000 Orthodox street, \$680. J. A. Sanator (O), on premises. C. C. Carn (C), 1654 Lyre street. New bulk front.

Garage, rear of 5429 Whitby avenue, \$600. H. W. Stahl (O), on premises. L. F. Hudson (C), 1937 South Alden street. Brick, 1 story, 17x16 feet, cement floor, slag roof.

Garage, 5128 Delancey street, \$600. W. F. Starliper (O and C), 5251 Rodman street. Brick, 1 story, 20x24 feet, slag roof.

Dwelling, 1422 Haster street, \$800. F. E. Tenner (O and C), on premises. Brick, 3 stories, 14x4 feet, slag roof.

Office and Wash Room, 1620 Washington avenue, \$2,250. Dougherty & Bachran (O), on premises. Conneen Const. Co. (C), 1737 Filbert street. Brick, 1 story, 20x30 feet, slag roof.

Dwelling, 2837 West Girard avenue, \$1,500. E. Uhl (O), on premises. George Kessler Const. Co. (C), Drexel Building. Brick, 1 story, 18x6 feet.

Dwelling, A and Willard streets, \$300. S. Sprenger (O), 3236 A street. Carl Seleshi (C), 1637 North Third street. Brick, 1 story, 16x6 feet, tin roof.

Dve House, Collins and Allegheny avenue, \$6,000. General Processing Co. (O), on premises. Harry H. Wehmeyer (C), 1004 West Lehigh avenue. Brick, 1 story, 28x92 feet, slag roof, steel sash, metal covered door.

Garage, 938 North Fifty-first street, \$500. C. W. Rogers (O and C), 237 South Fortyninth street. Brick, 1 story, 10x16 feet, slag roof.

Store and Dwelling, 1213 North Eleventh street, \$1,000. Paul Fullborn (O), 1009 W. Girard avenue. H. A. Hobert (C), 2620 E. Cumberland street. Brick, 2 stories, 12x6 feet, and alterations.

Garage, Passyunk avenue and Twentieth street, \$350. B. C. Simon (O and C), 2200

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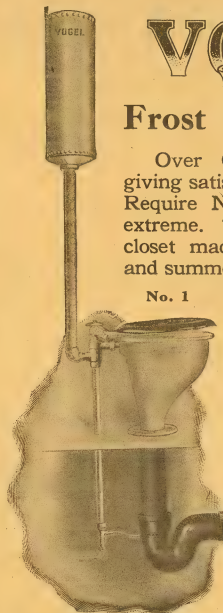
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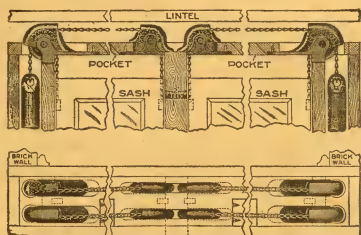
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September 19, 1917

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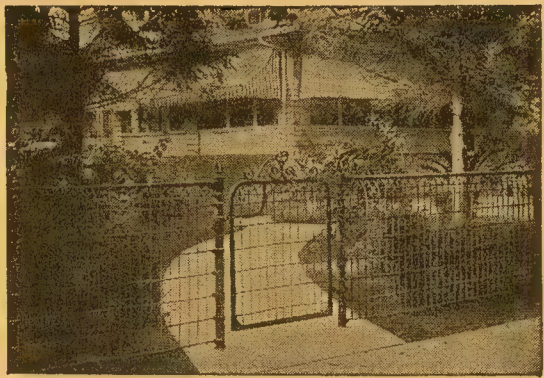
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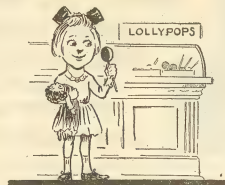
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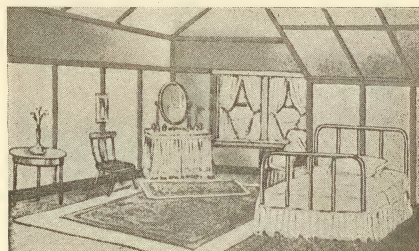
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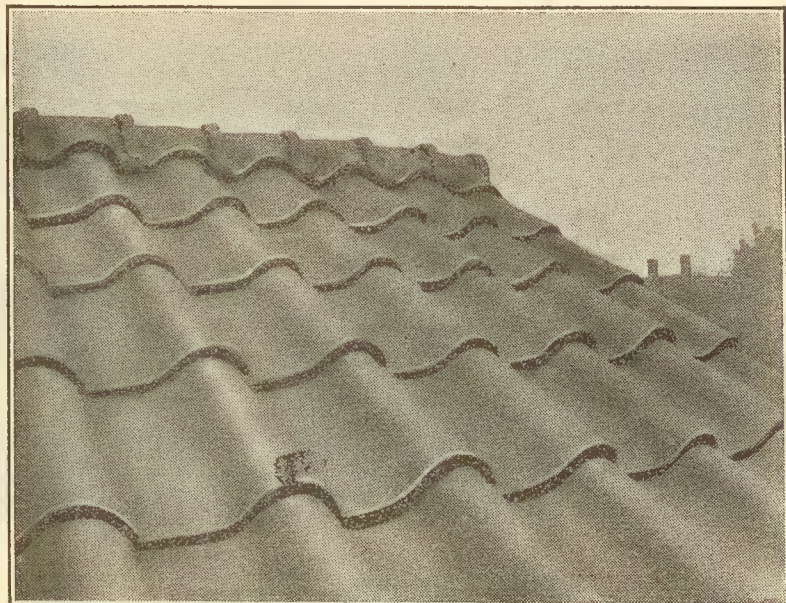
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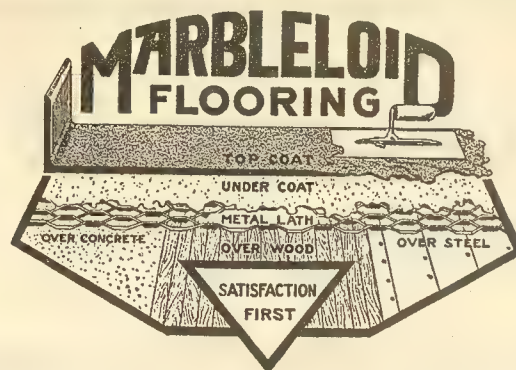
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Devoted to the Advancement of American Architecture, Structural
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As The Editor Sees It



MR. DANIEL WILLARD is the presiding head of the Baltimore and Ohio Railroad Company. He is also one of two or three specialists in transportation delegated by President Wilson to work out the railroad side of the war situation. Within his own, immediate line Mr. Willard is admittedly an authority. Outside of the zone of his regular every-day activities, and away from what might be called the technique of transportation Mr. Willard knows probably as much or as little as the next man in the street. At Washington, recently, Mr. Willard was prevailed upon to submit to an interview and in the course of that interview was prevailed upon to give utterance to some very crude and ill-considered ideas.

Taking as his text the cryptic little sentence, "We must win the war!" Mr. Willard talked at some length on the general necessity which, in his opinion, exists for a systematic and nation-wide observance of economic safeguards. A few of the statements Mr. Willard makes will find ready concurrence; a great many of his statements will be set down, I imagine, as downright foolish.

* * *

IF you are about to undertake an enterprise, stop and ask yourself this question: Will this help America win the war?"

That is the way Mr. Willard sums up for the people in the cities and on the farms their problem and duty. There

are two reasons why we should have this test. The immediate one is the necessity for conservation of every ounce of power in production, transportation and distribution. Not only must America meet her own war-time economic problems, but she must assist in meeting those of England, France, Russia and Italy—for the protection of America. The second reason is that rich America may need every dollar of its almost incalculable wealth. Mr. Willard said:

"You must understand that this war differs from all that preceded it. Hitherto wars have been between armies. This war is between the economic forces of the opposing nations. That means a testing of our whole people and those of our allies against the whole people of Germany and her allies. No one can really grasp the terrible nature for us of that testing unless he knows Germany and the German people. I have visited Germany many many times, and I know the efficiency of the German Government and people to be such as will tax our resources to the utmost if we are to win, and—

"We must win."

* * *

ISAY we must win. Let me drive it home to you that if we do not win Germany will win. There is no middle ground. War means that opposing sides seek to impose their will upon each other. Unless we win Germany will impose her will upon us. Germany will

force upon us her standards, and she will do that after she shall have made us as near powerless as she can. That is what she is trying to do to-day, with all of her efficient millions.

"Now you ask me how we shall fight. I have told you that this is an economic war in which whole nations grapple. That means that every man, woman and child in America is a soldier in this war. Every man, woman and child is adding to the economic power of America in greater or less degree, or is decreasing that power. Every man, woman and child is a good soldier or a bad soldier. How shall they be sure of being good soldiers? My answer is this:

"Let every person about to embark upon any enterprise, great or small, ask this question: Will you help America win the war? If they will ask that of themselves, they will have no difficulty in ascertaining the right answer, for our people are enlightened and perceptive. And if they adopt the right answer, they will have become good soldiers."

* * *

UP to this point Mr. Willard's remarks, while overdone on the side of hysteria, are comparatively innocuous. In other words, they are broad generalizations to which the average patriotic man of business will not be disposed to take exception. It is when Mr. Willard essays to become specific that he ventures into deep water. The Willard idea of a wise and patri-

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otic national economy is to—stop all building! Stop all building in order that every dollar available may be hoarded for the building of locomotives! The war is to be won by locomotives. The nation with the greatest number of locomotives, according to the Willard mode of reasoning, is destined to emerge the victor. All other avenues of enterprise are to shut up shop. Everybody is to take to building locomotives. Mr. Willard's railroad training permits him to think in terms only of locomotives.

* * *

By way of illustrating, in my opinion churches should not be built unless the planners believe America will be aided thereby," says Mr. Willard. "Postoffices should not be built. Unnecessary private residences should not be built. Public improvements should be put off, unless it is clear that they will add to the efficiency of our nation in the war or are necessary in the interest of the public health or safety.

"Measure these facts against each other—measure the imperative needs of Russia, added to the needs of England and France, against our capacities and our own normal demands.

"How are we going to do it? How are we going to protect ourselves in helping Russia and France and England by giving them nearly all of our output of locomotives, when our own demands are for 4,000 of the output of 5,500? There is just one way of doing that. We must get along without our normal purchases of new locomotives despite the tremendous increased strain which the war has put upon our railroads. We must, we simply must, do this, because the more locomotives to Russia, the fewer men to the western front, perhaps to death!

"I say that we will send locomotives to Russia by denying ourselves our needs. Now, when I put to you the problem how we can achieve the denial, I carry you back to the test every American should put to himself: Will this help America win the war? If a church is being planned, the stone and steel and other materials must be transported in cars hauled by locomotives. Will those locomotives, in that use, best help to win the war? Will they, in that business, relieve the strain upon the transportation system of America and thus enable the railroads here to do without new locomotives, so that Russia may have them and so that Russia may stay in the fight, and so that we shall not have, to send an additional great number of men to the western front?"

* * *

AND so with the private residence which can be done without for a year or two. If it is built, locomotives will be needed to haul the material. If it is not built, the strain upon

the American railroads will be relieved. And so with public improvements not necessary to the public welfare.

"I want to tell you briefly something about steel. Steel would have been used in that separation of the grade crossing. Of course it would. It is used in everything. It is used by every one. The civilized world cannot do without it. In times of peace it cannot do without it. In times of war, when artillery and ammunition are made and destroyed in vast quantities, when ships are built and sunk in great numbers, when railroad systems must be constructed almost overnight behind the changing battle lines—in times of war the need for steel surpasses statement."

* * *

THE Government has put Judge Lovett in charge of the distribution of steel, and a better appointment never was made."

"Do you mean, Mr. Willard, that the man with \$500, or \$1,000, or \$2,000, to buy an automobile, should stop and ask himself whether the purchase will help win the war?" he was asked. He replied:

"Exactly that, exactly that! Often he will find that the answer is in the negative. Let him lend that money to the Government. His country needs it. We have spent \$7,000,000,000, and now the Secretary of the Treasury tells us, as we read in the papers, that \$5,000,000,000 must be had. Soon we shall hear that more billions must be had. We do not know where it will stop. Neither do we know our capacity for meeting the demands. No one knows the credit of America. It has never been tested to its limits. Maybe it is \$20,000,000,000, maybe it is \$30,000,000,000, maybe it is \$40,000,000,000. We do not know. But what we do know is that the American people should prepare themselves for tremendous demands.

"The man is blind who puts his pleasure or his ambitions above the need of his country in this hour, or who deludes himself with the thought that the need is not vital. And if he puts into Government bonds the dollars which would go into something he can do without, or which, at least, can be postponed, he should have no fear that business will stagnate. Every dollar that he lends his country goes at once into industry and commerce. With all of the billions the Government has been given in these last few months it is to-day in the position of the \$60 a month clerk whose tradesmen's bills match or possibly exceed his resources."

* * *

THIS remarkable interview is hotly resented by builders and men in the building trades whose work to restore popular confidence is largely

undone by it. One widely-known Philadelphia architect, Mr. Ralph White, was moved to address Mr. Willard a letter upon the subject, couched in terms of indignant protest. Only a month or less back President Wilson made an impassioned plea for the continuance of the nation's business with as little variation as possible from normal standards. He counselled an effort to so order affairs as to have all lines of the nation's industrial life go on much as usual. Now comes along Mr. Willard with his topsyturvy advice to drop everything and build locomotives. A nation that confined its industrial activities solely to the building of locomotives and the making of munitions would soon stop. This war will be won as much by mercantile as by military organization. When it stops there is going to be a call made upon America to help rebuild Europe. When that call comes it won't be for locomotives or munitions or steel rails or passenger cars. It will be for structural steel and brick and stone and lime and cement and concrete and labor and constructive enterprise. If we all stop building now we shan't be in a position to do our share to be expected of us then. And it won't do to offer as a plea in justification that we are overstocked with, say—locomotives.

* * *

TOUCHING the unwisdom of the absence of speculative building in Greater New York, *The New York Times* observes:

"Building statistics affecting residential construction in the five boroughs during the first six months of 1917, as compared with similar period during 1916, shows a startling decline.

"It would seem that the present exceptional renting season, couple with the normal city growth and the steadily increasing demand, would stimulate building construction; but it is apparent that building costs have soared to prohibitive heights and checked continued construction.

"In Manhattan, for example, tenement and apartment house builders filed plans up to July 1, 1917, for only 21 structures, involving about \$2,471,000, as against 118 up to July 1, 1916, costing \$18,464,500. Plans for dwellings also show large declines both in number and cost.

"In the Bronx, tenement house building took a decided slump. During 1917 52 plans were filed calling for an outlay of \$3,255,000, as compared with 169, calling for \$8,667,000, for the semi-annual period of last year.

"Brooklyn shows a similar trend, although it had been predicted that progressing subway construction and the operation of the new transportation units would stimulate building regardless of

the present deterrents. Nevertheless, the first six months of 1916 show plans for 334 new tenements, costing \$7,779,000, as compared with 174, involving \$4,507,000, for this year.

"Meanwhile, New York continues to grow, and no real attempt is being made to house adequately the steadily enlarging population. Even in Brooklyn and the Bronx, where land values are still low enough to warrant the undertaking of the construction of apartment houses, builders are fearful of the steadily mounting prices of materials and the growing scarcity of labor.

* * *

DISCUSSING the situation Lawrence B. Elliman, of the firm of Pease & Elliman, said:

"The demand for residential space in buildings of practically every description is better than it has been in years. The old buildings are all rented, while the more modern structures were, in more than one instance, filled from the plans, before any tenants had even taken possession.

"From present indications, with little or no possibility of price recession in building materials and with the draft making new demands upon the labor supply, building activity along residential lines is not likely to be prominent. Government work and the expansion of manufacturing and industrial plants to meet war exigencies will hold chief places in the nation's building program.

"Residential construction, if any, will be confined to isolated cases of individual owners of high financial standing, who desire to build homes; and, here and there, to an intrepid builder who is enterprising enough to take a chance in the race against time and rising costs. As a rule, however, few will dispute the assertion that speculative building is now and will probably continue for some time to be practically at a standstill.

"But the turn is inevitable. The war cannot last forever, and the resources of the United States are vast. Declarations of peace will release the tremendous army and navy supplies for private consumption. Steel, lumber and other essentials of building construction will be available, and then real estate will come back to its own.

"Just as soon as there is the slightest tendency toward a drop in building costs and builders can reasonably assume that there will be no new price heights established, they will make an effort to capitalize the existing shortage of apartments. While temporarily depressing, the outlook is unusually hopeful. To the owner of real estate and to the prospective buyer, the future has many optimistic indications."

FROM Detroit comes the same cry of scarcity of houses. Witness the following from the *Detroit Free Press*:

"Detroit manufacturers are voicing the urging need for more houses of a type adapted to the needs of the average workman. Some authorities consider the proper housing of Detroit's great force of factory employees the city's greatest problem. From the standpoint of economics it is apparent that much exists to confirm this belief. It also is cited that in the process of eliminating the condition of congestion a stimulus will be given to real estate for an indeterminate period.

"Harry B. Warner, acting secretary of Detroit Board of Commerce, speaking on the subject from the viewpoint of the city's industrial interests, says nothing is more necessary for stabilizing Detroit's ever-growing army of workmen than the providing of individual dwelling places in sufficient numbers to meet the present great demand.

"The biggest problem before American industries to-day, and this applies specifically to Detroit, is that of labor," says Mr. Warner. "It is difficult to obtain necessary labor and sometimes even more difficult to hold the working forces together because of the house shortage. The Detroit Board of Commerce is accomplishing appreciable results in meeting this need through its housing committee, which operates in conjunction with employers in providing homes for the laborer."

* * *

FROM a real estate standpoint, statistics issued by the city department of buildings evidence that great strides are being taken toward a solution of the problem. Recently there has been a slight tendency to shorten building operations because of uncertainties in supply of building materials and in labor markets and the high cost of materials, but these conditions have had less effect on individual home-building than in most other branches of the construction business.

"Several of the largest real estate firms are entering the home-building business and are making it a part of their operations equaling in importance the subdividing of land to provide the basic home sites. Some of these subdividers are exerting efforts toward furnishing all the facilities necessary to enable lot owners to build on their property. Expert building managers, architectural facilities and means of financial construction are being provided to facilitate the movement.

"Remarks by the president of one of Detroit's largest industries may be taken as a criterion of the exact condition ex-

isting and showing the immense field for operations in this line.

"Our business is now practically contracted for several years to come," he says. "We could almost double present production if labor were procurable. The biggest drawback in obtaining labor and keeping it is the matter of providing housing facilities. In the vicinity of our main plant there is a fine open country very desirable for home sites for our workmen. It has been well subdivided and now they have commenced to build moderate cost homes that will appeal to our workers. We will give them every co-operation to stimulate this work along legitimate lines."

"Noted housing experts who have studied the local situation say there is a present need here for 20,000 to 35,000 new homes, a great percentage of which should be individual dwellings. This proves the need, say realtors, and as regards the desire and ability to pay for these homes the unprecedented prosperity of the laboring class in Detroit is cited as evidence."

* * *

AND, finally, what has Mr. Willard to say to this from the *Building Review*:

"Are we in danger of losing our heads and stopping building while the great world war is on? One does not realize what a serious happening this would be. We are prone to forget everything but the army of fighters and the army of food producers, but we must continue to think of construction work, and push it more as the war clouds gather.

"The cost of construction work must necessarily be much greater when we compare it with previous prices, yet as there is no probability of a decline in the prices of materials and labor for several years, yet we should continue to build while we fight. After the close of every great war, building has boomed. Railroads and highways are reconstructed, factories enlarged, etc., and every one feels that he wants to wait until this boom is on before investing capital, but when we think of the vast numbers who will be without work when construction ceases, it behooves us to bend every effort to keep the building work normal.

"Numbers of new enterprises projected before the war have not been built, their promoters taking the stand that it would be folly to invest capital at this time of unsettled conditions. Building investors should not hesitate with their plans, for it is this hesitation that is causing the unsettled conditions. Americans must realize that the only thing necessary is to go on attending to our own business, and be sure to have some business to attend. Railroads should spare no effort to supply the needed cars for transportation of materials."

THE Special Defense Committee of the Chamber of Commerce of the United States has sent out a statement asking for the conversion of steel. The committee outlines the needs of the government for the nation's entire output of steel, and advises that wood and concrete be used wherever it is possible. Naturally, such warnings tend to promote the wood and concrete industries. Why cannot this be true with brick, cement, lime, sand, stone, and all building materials? These industries are basic and if any action is taken that would result in their prostration, there is great danger that the government will be seriously embarrassed in financing the war.

"Already we are beginning to see no-

tices of architects closing their offices, and contractors filing bankrupt petitions. Bankers are saying that within a few months there will be no sale for municipal bonds, etc. Big factories refuse to consider improvements or enlargements, stating that they must wait until business is normal, and while we wait for a return of normal conditions, business gets less and less, conditions more and more unsettled, and capital already invested becomes insecure. There is but one thing to do. Get in behind all building operations! Push them, and thus keep business normal.

"Let us not forget that building is essential as well as fighting."

And, it might be added, living conveniences as well as—locomotives.

Otis Dockstader, of Elmira, N. Y., architect, has been appointed vice-president of the Committee on State Building Laws of the New York Society of Architects. This committee, acting in harmony with the committees of the other architectural societies, is trying to arrange a building ordinance for the State which will give all cities and towns of like size a standard building law.

* * *

The American Foundrymen's Association will hold its twelfth annual exhibit of foundry and machine shop equipment in the Mechanics' Building, Boston, Mass., September 25-28, inclusive.

* * *

Burnham Hoyt, architect, connected with the office of Bertram G. Goodhue, has been awarded the \$150 first prize offered by the Art Alliance of America for a design to advertise the second Liberty Bond issue. The judges were: Herbert Adams, president of the National Academy of Design; J. Herbert Case, Frank G. Cooper, James P. Haney, director of art in the New York City high schools; W. Frank Purdy, president of the Art Alliance of America; Lieutenant Henry Reuterdahl, U. S. N. R. F., U. S. N. Publicity Bureau; Frank A. Vanderlip and Mrs. Frank A. Vanderlip, chairman of the Poster Committee of the Federal Woman's Liberty Loan Committee.

* * *

With two or three large contracts awarded for Government work during the past week and an announcement that R. H. Macy & Co. were preparing to erect a seventeen-story addition to their department store in West Thirty-fourth street at a cost of more than \$500,000, the building situation in the Metropolitan district is confronted with a much brighter outlook. There is now a strong feeling prevalent in the industry that the building fraternity is on the eve of substantially better times than have maintained for a long period. All that was necessary to produce this change of mental attitude was a slight evidence of increased building activity, and hope was renewed.

* * *

Recently there have been numerous predictions that the conditions that have been so detrimental to structural activity would improve, and that many of the adverse factors from which the industry has been suffering were to be eliminated and replaced by others vastly more favorable to structural progress. Although this change has been long in coming, its ultimate arrival is nevertheless certain, and even now there is a firm conviction among the leading concerns in the architectural profession, backed up by a similar attitude on the part of prominent builders, that the worst of the recent depression is a thing of the past and that from this time forward working conditions should steadily improve.

* * *

One of the most important indications that conditions are better to-day than they have been, is the considerable amount of specula-

EDITORIAL NOTES

Charles M. Dill, local representative of the **Witherow Steel Company**, who has been drafted into the military service of the United States, is making preparations to leave Philadelphia by September 30th. Mr. Dill was widely esteemed in the structural trades and departs with the best wishes of a large circle of friends. The Witherow Company has not yet announced just how the vacancy created by Mr. Dill's resignation is to be filled.

* * *

Building operations in States north of the Ohio and east of the Missouri River show an increase of \$318,151,233 for the first nine months of the current year as compared to the corresponding period of 1916. The total for the present year aggregates \$1,156,176,155, which compares with \$838,024,922 a year ago, according to statistics compiled by the F. W. Dodge Company. In New York and northern New Jersey, building and engineering operations during the same period amounted to \$212,328,000 this year, against \$145,085,500 a year ago, an increase of \$67,242,500.

* * *

With steel prices soaring to prohibitive heights and with the Government demand increasing steadily to unprecedented amounts, there is considerable discussion in the building trade regarding adequate substitutes. There is a possibility that the old-time steel beam and girder will be replaced by one of reinforced concrete or masonry. There is a growing sentiment that structures of this type may be safely built, provided they are of moderate height. The popularization of cement in building construction within recent years makes such a possibility far from a remote one. In any event, American enterprise will not be daunted by a restricted supply of steel. Reinforced concrete may furnish the substitute and solve the problem.

* * *

That new mortgage money is being steadily released into Manhattan realty is evidenced

by the records of the Register's Office. From January 1 to August 23, 1917, a total of \$96,735,177 was loaned, as compared with \$70,562,813 for the corresponding period last year. Of this amount banks and insurance companies furnished \$57,403,600 this year, as against \$30,550,159 in 1916.

* * *

C. C. McDermott, Philadelphia manager of the Lord & Burnham Company, returned recently from a vacation of several weeks spent in Asbury Park.

* * *

Register John J. Hopper has received a telegram from Hon. H. L. Barfield, member of the Georgia Legislature, stating that Georgia has passed the Torrens Land Title Registration Law, introduced by Mr. Barfield. Georgia is the fifteenth State in the Union to adopt this reform. The Georgia act in its essentials follows the model act approved by the Committee of the American Bar Association.

* * *

The Abraham Lincoln monument, well known to passers-by on Union Square, New York, was erected in September, 1870, by the Union League Club. The statue is of bronze and weighs about 3,000 pounds. It is nearly eleven feet high. The pedestal, which is twenty-four feet high, weighs forty tons.

* * *

The American Iron and Steel Institute will hold its autumn meeting at the Hotel Sinton, Cincinnati, October 26 and 27.

* * *

Thomas Bennett, architect, has moved his office from 5123 Third avenue to 7824 Fifth avenue, Brooklyn.

* * *

Charles E. Knox, 101 Park avenue, Manhattan, is the consulting engineer for the elevator and electrical equipment of the new Union Trust Company building, Pittsburgh, Pa.

tive work that has come to light during the last few days. Many architects are busy upon the plans for work of this nature, and there is every likelihood that a large percentage of the operations will proceed at an early date. At the present writing there is more work of this character noticeable than there has been for a long time and leads to an impression that renewal of building of this type is about to be started on a large scale. Speculative building has been the one type of building operation mostly effected by the high cost of materials and supplies maintaining throughout the past year, and now that there are important recessions from the existing price levels within prospect, speculative work has taken on a much better tone.

* * *

The market for structural materials and supplies is extremely spotty. Although a majority of commodities have held firmly to their price levels, sales have been comparatively light. Inquiries for future deliveries in certain lines have picked up, however, and there is much hope being registered from this quarter. The steel market is almost inactive and there is no improvement in sight until the anticipated announcement of the action of the Government in regard to control of output and price is released. Builders contemplating improvements requiring steel in any quantity are holding off, feeling that through Governmental action steel will be obtainable at a figure considerably lower than those being quoted at the present time. The brick market is stable with prices sustained. Cement, lime and other mason's materials are firm and not likely to fluctuate greatly under the present conditions.

* * *

The building interests, as well as all other lines of commercial and industrial activity, have begun to feel the effects of the mobilization of the new National Army. Some time ago the National Guard of all States was mobilized, and with this movement a large body of men was taken out of civil employment, the building and allied trades sustaining their share of the depletion. Already some of the men called by the terms of the selective draft have started upon their journey to their respective training camps, and this has further depleted working forces and aggravated a labor condition that at best was almost intolerable by virtue of the scarcity of men. The building trades are now confronted with the necessity of adjusting themselves to the new conditions brought about by the resignations of the men called to the colors.

THE BUILDING SITUATION.

Close observation of business conditions among farmers and in farming communities shows that the farmer this year is realizing more per acre than perhaps at any time in his history. There never were such prices for grain, stock, and other farm products. The contention is made by some farmers that in spite of the fact that prices are high, they

are compelled to pay higher prices for all materials. Comparison, however, of the buying power of the farmer's dollar to-day, with its buying power when building materials were cheaper, shows that, relatively, building material is far cheaper to-day than during times of low prices for farm products. There is, therefore, no argument for discontinuing new construction.

The big industries who are now enjoying profitable and successful business, much increased in size, of course, over previous years, are seeing fit to spend vast sums for extensions to their businesses and improvements in buildings, and the like. The farmer is a business man, and should be able to learn a lesson from the assembled brains of managers of big corporations. If the time is ripe for them to spend their profits for new construction and extensions, is it not also timely for the farmer to do likewise?

* * *

A building is very much like a suit of clothes. In times of stress a man will tell the repairer of old clothing to "do his best" and will make a suit answer the purpose for a little longer than usual; but there comes a point beyond which he dare not go unless he is willing to let himself slump into the class of the hopelessly seedy. Even so, buildings are constantly wearing out and must be replaced if we hope to keep up our present stage of civilization.

One keen-visioned man says that if the present rate of procrastination in building is continued, the country will be three years behind in building when the war is over, and then it will be next to impossible to catch up. But that is something which will not be permitted, we are sure. People are beginning to analyze the situation more carefully, with the result that they are not able to see ahead any better time than the present to build their homes.—"National Builder."

NEW MODEL CITY AT PORT WENTWORTH, GA.

Details of the model town shortly to be erected at Port Wentworth, a few miles outside of Savannah, Ga., have been made public by William Morris Imbrie & Co., New York, who have financed several industrial concerns located at this point and who are responsible for the new city.

Charles W. Leavitt, a New York landscape architect and civil engineer, has prepared the plans of the city and the actual work of construction will be carried forward under his direction. Mr. Leavitt has recently completed model cities at Wilmington, Del.; St. Helena, Md., near Baltimore, and at other points.

Port Wentworth City will be erected to provide convenient and comfortable homes at a nominal expense for the workmen and families of the employees of the various enterprises established at the near-by Port Wentworth Terminal, which is owned by the Savannah and Atlanta Railway.

The plan of the city, which will have its

own water supply, sewerage system and lighting plant, calls for a white and negro village on opposite sides of the Savannah River, with separate schools, community stores, churches, parks, and moving picture theatres. All the cottages will be of frame construction, the materials being cut on the property by the Port Wentworth Lumber Company, and in the white village will be of Colonial style of three, five, six and eight rooms. In the colored district there will be 250 two-room bungalows. Two modern hotels will also be erected in the main city for the accommodation of transients.

Open air school classes for the children will be one of the modern ideas introduced at Port Wentworth City.

The care taken to provide this model city with all the modern attributes at a lower expense to employees than could be secured otherwise, is expected to go a long way toward solving the ever vital problem of adequate labor supply.

WHY CEMENT COSTS MORE.

This comment on the higher price of cement comes from the Portland Cement Association: In connection with the advance in the prices of building materials in the last two years, information reaches the public occasionally which indicates that the manufacturer, in dealing with labor and raw materials, has the vexing problem of high prices before him quite as well as the consumer.

One manufacturer of cement, in discussing his difficulties, said:

"As compared with 1915, cost results for January, 1917, show that coal for power and burning was 25 cents higher per barrel for finished cement. In other words, the amount we are obliged to pay for fuel now has increased the cost of manufacturing a barrel of cement 25 cents, as compared with the early part of 1915. We are paying 35 per cent. higher wages, which has increased the cost of manufacturing cement several cents per barrel. All repair and renewal material has increased in cost by percentages varying from 30 per cent. to 250 per cent. The increase in the cost of insurance, due to the general adoption of the compensation insurance, and the increase in taxes, have also added to our cost of doing business 1 cent per barrel. We have been compelled to pay higher salaries. Our operating costs are considerably higher than formerly by reason of frequent interruptions due to shortage of cars and delays in transportation. All of these factors and the general increase in the cost of all items entering into the problem of manufacturing cement have vexed the cement makers and have compelled them to charge more for their product, a situation which is not at all relished by them because of the fact that one of their most prominent arguments for the use of concrete is not only its economy and permanence, but its relative low cost as compared with other materials which for many purposes are rivals of concrete."

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bakery (add.), 1729 South Twelfth street, Philadelphia. Architect, J. Elvin Jackson, 721 Walnut street, Philadelphia. Owner, Frank Burseo, 1727 South Twelfth street, Philadelphia. Brick, 1 story, 16x57 feet, slag roof, cement floors, electric lighting, hollow metal skylights. Plans completed. Owner taking sub-bids.

Residence (alt. and add.), 243-45 South Camac street, Philadelphia. Architect, R. H. Pepper, 1808 North Seventh street, Philadelphia. Owner, name withheld. Brick and stucco front, third floor addition, 31x32 feet and third story addition, 8x14 feet, tin roof, pine floors, electric lighting, waterproofing. Architect taking bids, due September 22d. F. B. Davis, 240 North Sixteenth street; H. E. Baton, 1713 Sansom street; Frank G. English, 1610 North Carlisle street; Kirk & Reid, 321 South Juniper street; Robert Merkel, 633 North Park avenue, and Chas. S. Frank, 1113 Cherry street, Philadelphia, are figuring.

Steel Plant, Tacony, Philadelphia, \$380,000. Architect, Thos. B. Lippincott, 1505 Arch st., Philadelphia. Owners, Tacony Ordinance Corp, Tacony, Philadelphia. Brick and steel, hollow tile and concrete and A. P. M., 1 story, machine shop, 270x130 feet; treating shop, 135x102 feet; forge shop, 136x210 feet; open hearth shop, 189x105 feet, slag, asbestos and asphalt roof, composition and wood block floors, rolled steel sash, hollow metal sash and doors, ornamental iron work. Architect has received bids.

Bank Building, northeast corner Fifth and Tabor road, \$50,000. Architect selected, John H. Bothwell, Geneva avenue and Westford road, and John T. Brugger, 5610 Mascher st., Philadelphia. Owners, Olney Bank, on premises. Limestone and terra cotta (fireproof), 1 story and basement, 40x80 feet. Plans in progress. Architects ready for bids October 1st.

Service Building, northeast corner Twentieth and Erie avenue, Philadelphia. Engineers, Watson & Co., Cleveland, Ohio. Owners, White Motor Car Co., J. D. Howley, Philadelphia manager, 216 North Board street, Philadelphia. Brick and steel, 1 story, 100,000 square feet, slag roof, steam heating, electric lighting, cement floors, gasoline storage system. Plans about completed. Owners will take bids in a week.

Office and Bakery (alt. and add.), 1449 N. 12th st., Phila. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Philadelphia Homemade Bread Co., on premises. Brick, 3 stories, 13x40 feet, slag roof, pine and composition floors, hollow tile, metal lath, rolled steel sash (heating, plumbing and lighting reserved). Architects taking bids, due September 19th. Sutton & Stephenson, 1317 Washington avenue; F. L. Hoover & Sons, 1023 Cherry street; Robert E. Lamb Co., 1314 Arch street; Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; Ket-

cham & McQuade, 1029 Brown street; H. E. Baton, 1713 Sansom street; John N. Gill & Co., Otis Building; F. B. Davis, 240 North Sixteenth street, and Barclay White & Co., 1713 Sansom street, Philadelphia, are figuring.

Garage, Logan, Philadelphia. Architect, Wm. H. Wooters, 816 W. Allegheny avenue, Philadelphia. Owner, name withheld. Brick, 1 story, 20x40 feet, slag roof, hot water heating, electric lighting, cement floors. Plans about completed. Architect ready for bids.

Theatre, southwest corner Nineteenth and Market street, Philadelphia, \$500,000. Architects, The Hoffman Co., Finance Building, Philadelphia. Owners, Stanley Realty Co., Juniper and Market streets, Philadelphia. Brick, stone, steel and terra cotta, 1 story and balcony, 142x170 feet, slag roof, electric lighting, metal lath, fire doors, tile and marble work, cement floors. Revised plans about completed. Architects ready for bids in a few days.

Bank Building, 9 South Fifty-second street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Guarantee Trust and Safe Deposit Co., 316 Chestnut street, Philadelphia. Limestone and granite, bronze trimmings, 1 story, 15x67 feet, slag roof, hot water heating, electric lighting, marble floors. Architects taking bids, due September 21st. The following are figuring: A. H. Williams' Sons, 419 Locust street; Stacy Reeves & Sons, 2011 Market street; John N. Gill & Co., Otis Building; Philip Haibach Cont. Co., Twenty-sixth and Thompson streets; J. Sims Wilson Co., 1125 Brown st.; Metzger & Fisher, Otis Building, and F. M. Buchanan, 403 Spruce street, Philadelphia.

Recreation Pier No. 57, Penn Treaty Park, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, Geo. S. Webster, Director, 550 Bourse Bldg., Philadelphia. Reinforced concrete, steel, timber and wood pilings, double deck, 70x295 feet, bulk head, A. P. M. and concrete roof, asphalt paving, cement and pine floors, rolled steel sash, kalamein and steel rolling doors, ornamental iron work, metal lath, safety treads, waterproofing, wire work. Owners taking bids, due September 28th. Armstrong & Latta, Land Title Building, and Snare & Triest Co., Pier 79, South Wharves, Philadelphia, are figuring.

Residence and Garage (alt. and add.), 1103 Sixty-ninth avenue, Oak Lane. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, John D. Williamson, Jr., on premises. Stone and brick, 1 story addition, 18x18 feet; garage, 1 story, 12x18 feet, slate and tin roof, canvas, concrete and pine floors, hot water heating, electric lighting, tile and marble work and terrazzo work. Architect taking separate bids on plumbing, hot water heating and tile work. Architect taking general bids, due September 25th. Specht & Sperry, Heed Building; James Bartleson, Am-

bier, Pa.; C. E. Lloyd, Jr., Eighth street and Sixty-sixth avenue; Edw. B. McCall, Sixty-fifth and Park avenues, and W. John Stevens, inc., Wyncote, Pa., are figuring.

Garage, 6405 North Sixth street, Philadelphia. Architect, private plans. Owner, Lee Harris, 6405 North Sixth street, Philadelphia. Brick, 1 story, 12x16 feet, slag roof, cement floors, electric lighting. Owner taking bids, due September 21st. J. Sims Wilson Co., 1125 Brown street, and H. H. Wehmeyer, 1004 W. Lehigh avenue, are figuring.

Residence (alt. and add.), Gowen avenue and Ardleigh street, Mt. Airy, Philadelphia. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, Frank P. Brooke, 7420 Boyer street, Philadelphia. Stone, 2½ stories, 2 story frame porch addition, slag roof, hardwood floors, tile work (plumbing, vacuum heating, electric work and composition floors reserved). Architect has received bids.

Power Plant No. 4 (alt. and add.), Sixth and Columbia avenue, Philadelphia. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Henry A. Sheip Mfg. Co., Sixth and Columbia avenue, Philadelphia. Reinforced concrete and brick, 5 stories, slag roof, cement floors, hollow metal sash and skylights and doors, fire doors, waterproofing. Owners have received bids.

Power Plant, Thirty-fourth and Pine sts., Philadelphia. Architect, Philip M. Johnson, Land Title Building, Philadelphia. Owners, Phila. General Hospital, care of Dr. Wm. Krusen, 584 City Hall. Brick and stone, 1 story, 158x33 feet, 50x52 feet and 88x80 feet, slag roof (steam heating, plumbing and electric work reserved), marble and terrazzo work, rolled steel sash and skylights, hollow metal sash, cement floors, metal lath, fire and kalamein doors, iron stairs, ornamental iron work, dampproofing. Low bidders: Standard Const. Co., 1713 Sansom street, \$238,600; Warren, Moore & Co., Colonial Trust Building, \$252,000.

Factory, Tioga and Richmond streets, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Girard Smelting and Refining Co., on premises. Brick and steel, 2 stories and basement, 41x112 feet, slag roof, steam heating, electric lighting, cement and yellow pine floors, pivot sash, electric elevator, metal marquise, fire doors. Plans completed. Owners ready for bids.

Shop, 1521 South Marshall street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, H. Barkan, on premises. Brick, 2 stories, 18x34 feet, slag roof, yellow pine and cement floors, electric lighting. Owner ready for sub-bids.

Garage, 431-33 Lombard street, Philadelphia. Architect, I. W. Levin, 2434 S. Eighth street, Philadelphia. Owner, M. Levin, on premises. Brick and steel, 2 stories, 32x70

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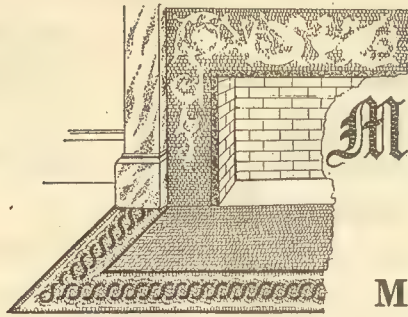
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feet and 60x60 feet, slag roof, steam heating,
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elevator (gasoline storage system reserved by
owner). Owner is sub-letting all contracts.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man
and Interior and Exterior Fitter.

School (int. alt.), Oak Lane avenue and
Twelfth street, Philadelphia, \$4,689. Archi-
tect, J. Horace Cook, Nineteenth street above
Chestnut street, Philadelphia. Owners, Board
of Education, Wm. Dick, Secretary, Nine-
teenth above Chestnut street. Brick work,
painting, partitions and interior alterations.
Contract awarded to Geo. Dobbin & Co., 414
South Forty-first street, Philadelphia.

School (alt. and add.), Fifty-fifth between
Chestnut and Ludlow streets, \$115,400. Ar-
chitect, J. Horace Cook, Nineteenth above
Chestnut street, Philadelphia. Owners, Board
of Education, Wm. Dick, Secretary, Nine-
teenth above Chestnut street, Philadelphia.
Reinforced concrete, brick and stone, 3 stor-
ies, 75x87 feet, slate and tile roof, concrete,
maple and composition floors, hollow tile, metal
lath, tile and marble work, fire and hollow
metal doors, iron stairs, ornamental iron
work, metal lath, roof ventilators, waterproof-
ing, dampproofing, wire work (heating, plumb-
ing and lighting reserved). Contract awarded
to Warren-Moore & Co., Colonial Trust Build-
ing.

Store (int. alts.), 1013 North Second street,
Philadelphia. Architect, private plans. Own-
er, Walter Herzberg, 904 Vine street, Phila-
delphia. Agents, Commonwealth Trust Co.,
Twelfth and Chestnut streets. Consists of in-
terior alterations. Contract awarded to Lam
Building Co., 1001 Wood street, Philadelphia.

Factory Building (alts.), 1204 Nectarine st.,
Philadelphia. Architect, private plans. Own-

ers, Tinius Olsen Testing Machine Co.,
Twelfth and Buttonwood streets. Consists of
moving drafting room to second floor, and ex-
tensive plumbing. Contract awarded to Lam
Building Co., 1001 Wood street, Philadelphia.

Warehouse, Eightieth street and Island rd.,
Philadelphia, \$40,000. Architect, W. E. S.
Dyer, Land Title Building, Philadelphia.
Owners, Richard L. Wallace & Co., 120 Chest-
nut street, Philadelphia. Brick and rein-
forced concrete, 1 story, 46x275 feet, slag
roof, cement and maple floors (lighting and
heating reserved), rolled steel sash, fire doors,
metal window guards, ornamental iron work.
Contract awarded to H. E. Baton, 1713 San-
som street, Philadelphia.

Garage, Glenwood avenue and Dauphin st.,
Philadelphia, \$2,500. Architect, J. Ethan
Fieldstein, Hale Building, Philadelphia. Own-
ers, Geo. Nass & Son, on premises. Brick, 1
story, 24x32 feet, slag roof, cement floors,
electric lighting. Contract awarded to D.
Henwood, 1509 Wood street, Philadelphia.

Machine Shop (add.), Midvale, Philadel-
phia, \$85,000. Architect, private plans. Own-
ers, Midvale Steel Co., Widener Building,
Philadelphia. Steel and brick, 2 stories, 112
x209 feet, slate roof, concrete and pine floors,
steam and hot air heating (lighting and steel
work reserved), hollow metal sash and sky-
lights, fire doors, iron stairs, ornamental iron
work. Contract awarded to Barelay White &
Co., 1713 Sansom street.

Residence, Bells Mill road, Chestnut Hill,

Philadelphia, Pa. Architect, G. Edwin
Brumbaugh, Real Estate Trust Building,
Philadelphia. Owner, Mrs. John F. Keator,
218 W. Walnut lane, Philadelphia. Stone and
stucco, 1½ stories, 40x73 feet and 20x30 feet,
slate roof, hardwood floors (hot water heat-
ing, plumbing, electric work and tile work re-
served). Contract awarded to Wm. H. Eddle-
man & Sons, 453 Green lane, Roxborough, Pa.

Warehouse (add.), Broad and Washington
avenue, Philadelphia, \$224,700. Architects,
Rankin, Kellogg & Crane, 1012 Walnut street,
Philadelphia. Owners, U. S. Govt., Bureau of
Wharves & Docks, F. R. Harris, Chief, Navy
Department, Washington, D. C. Brick, stone
and reinforced concrete, 7 stories, 92x131 feet,
concrete floors, elevators, fire doors, water-
proofing and dampproofing (heating, plumb-
ing and electric work reserved). Contract
awarded to Cramp & Co., Denckla Building,
Philadelphia.

Store and Dwelling (alt.), 29 South Ele-
venth street, \$2,500. Architect, Frank E.
Hahn, 1112 Chestnut street, Philadelphia.
Owners, Riegel Estate, care of Fell & Spald-
ing, North American Building. Brick, 4 stor-
ies, tin roof, maple floors, heating, renovat-
ing, electric lighting, metal lath, millwork.
Contract awarded to Raith Const. Co., 304
Master street, Philadelphia.

Barroom (alt.), 19 North Juniper street,
\$10,000. Architect, H. B. Weldon, 1606 Cherry
street, Philadelphia. Owner, M. O'Brien, on
premises. Brick and steel, 2 stories, cement
and tile floors, tile and marble work (heating,
plumbing and lighting reserved), ornamental
iron work. Contract awarded to Smith-Hardi-
can Co., 1606 Cherry street, Philadelphia.

Garage, 6328 Vine street, Philadelphia. Ar-
chitect, Herman H. Kline, Sixth and Mifflin
streets, Philadelphia. Owner, F. Di Bernard-
ino, on premises. Brick and stone, 1 story,
16x24 feet, slag roof, cement floors, hot water
heating, electric lighting. Contract awarded
to Fred Sbrogola, 703 South Tenth street,
Philadelphia.

Bank Building (alt. and add.), 819-21 Chris-
tian street, Philadelphia. Architect, Herman

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H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, F. Di Bruni, 6338 Vine street, Philadelphia. Brick, marble and stone work, interior and marble work, cabinet work, leaded glass, vault door, electric lighting. Contract awarded to Fred Srogola, 703 South Tenth street, Philadelphia.

Garage (alt.), 1220-26 North Twenty-sixth street, Philadelphia. Architect, private plans. Owner, James Finnessey, Twenty-sixth and Parrish streets, Philadelphia. Brick (changing partitions, moving elevator, slag roof, heating and lighting reserved), cement floors. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Cub House, Edgehill, Montgomery county, Pa. Architect, Horace W. Castor, Stephen Girard building, Philadelphia. Owners, Lu Lu Country Club, Fitzwatertown, Montgomery county, Pa. Stone, brick and steel, 2 stories, 88x30 feet, shingle roof, oak, composition, pine and marbleoid floors, tile and marble work, metal lath, hollow tile, metal weather-strip (lighting, plumbing and heating reserved). Architect taking revised bids, due September 21st. Longacre Const. Co., Widener Building; H. H. Wohmeyer, 1004 Lehigh ave.; Graham Campion Co., Otis Building; H. E. Baton, 1713 Sansom street; F. A. Havens Co., 845 North Nineteenth street; A. E. Raff Const. Co., 1635 Thompson street; Driscoll Co., Stock Exchange Building; R. C. Ballinger & Co., 218 North Thirteenth street; Franklin Engr. & Const. Co., Bulletin Building, and F. E. Wallace, 1220 Chancellor street, are figuring.

Cottage, Buck Hill Falls, Pa. Architects, Bunting & Shrigley, 603 Chestnut st., Philadelphia. Owner, Jas. W. Robinson, care of architects. Stone and frame, 2½ stories, 30x45 feet, asphalt shingle roof, hot water heating, electric lighting, pine floors. Architects taking bids, due September 21st. Buck Hill Falls Co., Buck Hill Falls, Pa., are figuring.

School (add.), Sharon Hill, Del. county, Pa. Architect, Wm. G. Douglass, Jr., 521 Ludlow street, Philadelphia. Owners, Board of Education, Wm. McNair, Secretary, Sharon Hill, Pa. Stone and brick, 2 stories and basement, 30x30 feet, slate or shingle roof (heating, plumbing, lighting and ventilating separate bids), concrete and maple floors, wire work, metal lath, safety treads, roof ventilators, metal window guards. Owners ready for bids, due September 27th.

Cottage, Buck Hill Falls, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, I. N. Coffin, care of

Factory (add.), Hancock street and Montgomery avenue, \$6,000. Architect, private plans. Owners, Jonathan King's Sons, on premises. Brick and steel, 2 stories, 28x105 feet, slag roof, pine floors (heating, lighting and plumbing reserved). Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residence (alt. and add.), 261 South Seventeenth street, Philadelphia. Architects, Stewardson & Page, 316 Walnut street, Philadelphia. Owner, Dr. Fielding O. Lewis, on premises. Brick, 1 story addition, 8x12 feet, tin roof, cement and oak oors, hot air heating, electric lighting, hollow metal skylights, waterproofing. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street.

PENNSYLVANIA

Construction News

architects. Stone and frame, 2½ stories, 50x50 feet, shingle roof, pine floors, electric lighting. Architects taking bids, due September 21st. Buck Hill Falls Co., Buck Hill Falls, Pa., is figuring.

Office Building (alt. and add.), Ardmore, Pa. Architect, Horace W. Castor, Stephen Girard building, Philadelphia. Owners, Autocar Co., Ardmore, Pa. Brick, consists of general interior alterations. Plans in progress. Too early for details.

Farm Buildings (twin), near Devon, Pa. Architects, Hancock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 26x32 feet, asphalt shingle roof, pine floors. Owner taking approximate bids.

Ward Building and Superintendent's House, Fairview, Wayne county, Pa. Architect, J. C. M. Shirk, 421 Chestnut street, Philadelphia. Owners, State Hospital for Criminal Insane, H. G. Ashmead, Secretary, room 284, City Hall, Philadelphia. Ward building, brick and stone and hollow tile, 2 stories and basement, 115x35 feet; superintendent's house, brick and stone, 2½ stories, 73x30 feet, slate roof (plumbing, heating, electric work and ventilating separate bids). Owners ready for bids, due September 28th at noon. Plans can be obtained at architect's office.

Residence, Valley Forge, Pa. Architect, private plans. Owner, John M. Enburg, 5431 Catharine street, Philadelphia. Stone and frame, 2 stories, shingle roof. Plans completed. Owner will take bids.

School (add.), Abington township, Montgomery county, Pa. Architects, Hancock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School Board of Abington township, W. F. Woolley, Secretary, School Board, Jenkintown, Pa. Stone and brick, 2 stories and basement, 92x55 feet, slate roof, concrete, maple and composition floors, metal lath,

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dampproofing (plumbing, lighting, heating and ventilating reserved). Owners have received bids.

Mausoleum, Easton, Pa., \$40,000. Architect, Edward Leber, York, Pa. Owners, York Mausoleum Co., J. R. Smith, Easton, Pa. Reinforced concrete, granite, marble and bronze, 1 story, 100x32 feet, and wing, 18x32 feet, tile roof, marble floors, tile and marble work. Owner is sub-letting.

Residence (alt. and add.), Lititz, Pa. Architects, Estep & Shaub, Lancaster, Pa. Owner, H. J. Pierson, Lititz, Pa. Consists of general interior alterations, slate roof (bi-loop vacuum heating, electric lighting and fixtures, plumbing and hardwood floors reserved), tile and marble work. Architects taking bids, due as soon as possible. Hershy Lehman & Co. and W. H. Muth, both of Lititz, Pa., are figuring.

Factory, Lancaster, Pa. Architect, Wayne M. High, Reading, Pa. Owners, Conestoga Motor Truck Co., Woolworth Building, Lancaster. Brick and concrete, 1 story, 60x200 feet. Plans in progress. Too early for details.

Mausoleum, Boyertown, Pa. Architect, D. M. Rothenberger, N. Queen street, Lancaster, Pa. Owners, 20th Century Mausoleum Co., Reading, Pa. Granite, marble and bronze, tile roof, marble floors. Plans completed. Owners ready for bids.

Factory Building, Mifflinburg, Pa. Architect, John A. Dempwolf, Cassatt Building, York, Pa. Owners, Automobile Body Works, Mifflinburg, Pa. Brick (slow burning), 4 stories, 60x300 feet, slag roof, steam heating, electric lighting, pine floors, fire doors, elevators. Plans in progress.

Residence, Easton, Pa., \$20,000. Architect, Edward T. Boggs, 136 South Fourth street, Philadelphia. Owner, Wm. R. Haytock, Easton, Pa. Stone, 2½ stories, 45x50 feet. Architect taking bids, due September 25th. John E. Kearney, 327 North Sixty-third street; Albert Zellfelder, 151 South Broad street, and Fred Heavner, Norristown, Pa., are figuring.

Club House, Broad and Deshong Drive, Chester, Pa., \$50,000. Architect, Clarence W. Brazier, Crozer Building, Chester, Pa., and 1133 Broadway, New York City. Owners, Knights of Columbus, care of Thos. Feely, secretary of Building Committee, Chester, Pa. Stone, 3 stories, 60x60 feet, tile roof, steam



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heating, electric lighting, metal lath, ornamental iron work. Plans in progress. Ready for bids about January 1st, 1918.

Garage, Andalusia, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, Henry F. Michell Co., 518 Market street, Philadelphia. Hollow tile and stucco, 1 story, 28x36 feet, slate roof, cement

floor, electric lighting. Plans in progress. Architect will be ready for bids in a week.

Storage Shed, Andalusia, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, Henry F. Michell Co., 518 Market street, Philadelphia. Frame and flexatile, 1 story, 75x21 feet, flexatile roof, electric lighting, cement floor. Plans in progress. Architect will take bids in a week.

PENNSYLVANIA

Contracts Awarded

Store Building (alt.), West Market street, York, Pa. Architect, private plans. Owner, Theo. Morton, on premises. Consists of two store fronts, 4 stories. Contract awarded to Mr. Hollinger, York, Pa.

Residence (alt. and add.), North Duke st., Lancaster, Pa. Architect, J. B. Harman, 48 N. Queen street, Lancaster, Pa. Owner, Amos Raub, N. Duke street, Lancaster, Pa. Brick, interior alterations, 3 stories, electric lighting, tile and marble work. Contract awarded to Geo. Bachman, Woolworth Building, Lancaster, Pa.

Church and Sunday School, Bern township,

Pa., \$25,000. Architect, D. M. Rothenberger, Lancaster, Pa. Owners, Bern Union and Lutheran Reformed Congregation, Bern township, Pa. Brick and stone, 1 story, 72x85 feet, slate roof, hot air heating, electric lighting, tile work, yellow pine floors. Contract awarded to Adam Spotts, Wernersville, Pa.

Post Office (completion), Harrisburg, Pa., \$18,200. Architect, private plans. Owners, U. S. Govt., Treasury Department, Washington, D. C. Brick and stone, 3 stories, slate roof, steam heating, electric lighting. Contract awarded to August Wildman, 2206 N. Third street, Harrisburg, Pa.

NEW JERSEY

Construction News

Hotel (int. alt.), N. Carolina avenue and Beach, Atlantic City, N. J. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owners, The Chalfonte, care of Leeds Co., on premises. Consists of 32 new bathrooms, mackite partitions, vacuum heat-

ing, electric lighting, tile and marble work, metal lath, roof ventilators. Plans about completed. Architect will take sub-bids in a few days.

Residence and Garage, Edgewater Park, N. J. Architect, Bart Tourison, Land Title

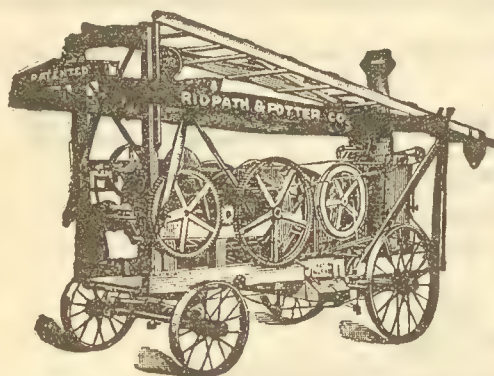
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Building, Philadelphia. Owner, Geo. Rhawn, Beverly, N. J. Brick or frame, 2½ stories, 42 x 55 feet; garage, 1 story, 19x24 feet, shingle roof, cement and hardwood floors, steam heating, electric lighting, tile work. Architect taking bids, due September 22d. Hugh B. Miller, Edgewater Park, N. J.; J. E. Kolster, Beverly, N. J., and Geo. W. Shaner & Sons, Palmyra, N. J., are figuring.

Residence, Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, Oaks Realty Co., Merchantville, N. J. Frame and stucco, 2 stories, 24x36 feet, shingle roof, pine floors. Plans in progress. Owners will build.

Residences (52), Fillmore, near Sixth street, Camden, N. J. Architect, private plans. Owner, T. Gordon Coulter, Haddon avenue, Collingswood, N. J. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot air heating, gas lighting. Owner taking sub-bids.

Garage, Sixth and Pearl streets, Camden, N. J. Architect, Thos. Stephen, Camden, N. J. Owner, Richard McAllister, on premises. Brick, 1 story, 60x21 feet, slag roof, steam heating, electric lighting, cement floors, fire doors, gasoline storage system. Plans completed. Owner is sub-letting.

College Building (alt. and add.), 323-25 Federal street, Camden, N. J., \$10,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Camden Commercial College, Inc., care of architects. Brick and stone, 3 stories, 40x65 feet, slag roof, composition and wood floors (steam heating, electric lighting and plumbing reserved), kalamein doors, hollow tile, metal lath, safety treads, roof ventilators. Architect taking bids, due September 21st. George Bachmann, 19 North Thirtieth street; Wm. Wrifford, West and Mickle streets; Mockett Const. Co., Sixth and Market streets; Lewis T. West, 828 Broadway; Bareklow & Fulton, 508 Cherry street; Harry C. Sharp, 410 Main street, Camden; Evans Const. Co., 9 South Eighteenth street, Philadelphia; Peterson Const. Co., Clayton, N. J., and W. J. Shaner & Son, Palmyra, N. J., are figuring.

Sewage Disposal, Pleasantville, N. J., \$150,000. Architects, Remington & Vosbury, Sixth and Market streets, Camden, N. J. Owners, City of Pleasantville, care of City Council, Pleasantville, N. J. Consists of 17 miles of sewers, screening station, pumping station. Plans in progress. Owners will advertise for bids about October 15th.

School, Browns Mills, N. J., \$12,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Pemberton Township, Pemberton, N. J. Frame, 1 story and basement, 76x52 feet, asbestos roof, steam heating, electric lighting, yellow pine floors, metal lath, fire doors, ventilators, hollow tile. Owners taking bids, due September 27th. Conklin & Sutto, Bradley Beach, N. J.; E. W. Esham, Mt. Holly, N. J.; Rhodenburg Co., and Glen Co., both of Browns Mills; Hugh B. Miller, Edgewater Park, N. J.; George W. Shaner & Son, Palmyra, N. J.; Peterson Const. Co., Clayton, N. J.; J. E. Kolster, Beverly, N. J., and Evans Const. Co., 9 South Eighteenth street, Philadelphia, are figuring.

Residence (alt. and add.), South Chelsea avenue, Atlantic City, N. J. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, Wm. Holten, care of architect. Frame, interior alterations, electric lighting, tile and marble work. Plans in progress. Architect ready for bids in ten days.

Residence (alt. and add.), Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, A. K. White, Atlantic City, N. J. Brick and frame, 3 stories, 60x42 feet, slate roof, hardwood floors, electric lighting, tile and marble work. Plans in progress.

Fire House, Egg Harbor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City Council of Egg Harbor, Egg Harbor, N. J. Brick, 2 stories, 35x81 feet, slag roof, pine floor, electric lighting, tile and marble work, metal ceilings. Plans in progress.

Garage and Chauffeur's Quarters, South Carolina avenue, Atlantic City. Architect, V. B.

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Smith, Sheen Building, Atlantic City, N. J. Owner's name withheld. Brick, 1 story, 22x45 feet, asbestos shingle roof, cement floors (hot water heating and gasoline storage system reserved), electric lighting, marble work. Plans in progress. Architect will take bids in one week.

Hotel (alt. and add.), Arkansas and Pacific avenue, Atlantic City, N. J., \$20,000. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, Hotel Osborne, R. B. Ludy, care of architect. Brick, 4 stories, 37x40 feet, slag roof (hot water heating reserved), electric lighting, tile and marble work, hardwood and pine floors, metal lath, iron stairs. Plans in progress. Architect will take bids in ten days.

Residence, Atlantic City, N. J. Architect, Edw. A. Yeo, Stephen Girard Building, Philadelphia. Owner, I. H. Newman, Atlantic City. Brick and stucco, 2½ stories (hot water heating, plumbing, electric lighting and tile work reserved), hardwood and pine floors. Owner taking bids, due September 21st. Samuel Headley, Taylor & Son, and J. V. Mathis, Guarantee Trust Building, are figuring.

Ship Building Plant, Gloucester, N. J., \$1,000,000. Engineers, Geo. F. Pawling & Co., 1438 South Penn Square, Philadelphia. Owners, Pennsylvania Ship Building Co., Gloucester, N. J. Brick and steel, 1 story, various buildings, various sizes, slag roof, electric lighting, rolled steel sash. Plans in progress. Engineers will sub-let.

Factory, Kearney, N. J. Architect, private plans. Owners, Ford Motor Co., Highland Park, Mich. Reinforced concrete, 4 stories, 758x375 feet, slag roof, concrete floors, rolled steel sash, fire doors. Owners taking bids, due as soon as possible. F. W. Mark Const. Co., Finance Building, Philadelphia, is figuring.

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New Jersey Contracts Awarded

Apartment House, 15 South Rhode Island avenue, Atlantic City, N. J. Architect, J. R. Ogden, South Carolina avenue, Atlantic City, N. J. Owner, Paul Taylor, Atlantic City, N. J. Brick and hollow tile, 3 stories, 150x50 feet, slag roof, hardwood floors, hot water or vapor heating, electric lighting, tile and marble work, rolled steel skylights, fire escapes, hollow tile and metal lath. Contract awarded to Taylor & Son, Guarantee Trust Building, Atlantic City, N. J.

Stores and Apartments, Pennsgrove, N. J., \$7,500. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Matthew Mitchell, Pennsgrove, N. J. Brick and frame, 3 stories, 36x30 feet, slag roof, combination light, pine floors, metal lath, fire escapes, roof ventilators. Contract awarded to A. S. Hocman, Pitman, N. J.

Store Building, Wrightstown, N. J. Architect, private plans. Owner, Julius Lamb, 7 Arch street, Philadelphia. Frame, 1 story, 20 x70 feet, ready roofing, North Carolina pine floors, bulk windows. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Miscellaneous Construction News

Factory (add.), Fort Wayne, Ind., \$500,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, General Electric Co., Fort Wayne, Ind. Reinforced concrete and brick, 6 stories, 75x600 feet, slag roof, cement and wood floors, rolled steel sash. Owners taking bids, due September 21. F. W. Mark Cons. Co. are figuring.

Ship Building Plant, Barbor Grace, New Foundland, \$500,000. Engineers, George F. Pawling & Co., 1438 South Penn Square, Philadelphia. Owners, New Foundland Ship Building Co., Harbor Grace, N. F. Wood consists of ship sheds, office building and storage buildings, Johns-Manville roof. Engineers taking sub-bids.

Summer Residence and Garage, Havre de Grace, Md. Architect, J. B. Harman, 48 N. Queen street, Lancaster, Pa. Owner, E. F. Piersol, Havre de Grace, Md. Frame, 3 stories, 74x26 feet, slate roof, yellow pine floors, hot water heating, electric lighting, tile work. Owner sub-letting.

Residences (single and double) (400), borough of Richmond, Staten Island, N. Y. Architect, Thomas B. Lippincott, 1505 Arch street, Philadelphia. Owner's name withheld. Hollow tile, Fisk-Lock brick or frame, 2 stories. Plans in progress. Too early for details.

Drop Forge Shop, Schenectady, N. Y. Architect, private plans. Owners, General Electric Co., Schenectady, N. Y. Brick and steel, 2 stories, 85x404 feet, asphalt roof, metal lath (lighting, heating and plumbing reserved). Owners taking revised bids, due September 22nd. F. W. Mark Const. Co., Finance Building, Philadelphia, is figuring.

SURE.

Stick to your work, forget the mob
Avoid the discontented throng;
For, if you're always on the job
Success is sure to come along.



It's the Long Fire Travel in the Burnham Cosy Comfort Boiler That Makes the Short Coal Bill

If you can keep the hot gases and smoke travelling back and forth inside a boiler long enough to extract the bulk of their heat, and still not make the draft sluggish; it's plain enough that less heat will go up chimney and more heat go into your radiators. That back and forth action is what we call fire travel. It's this long fire travel in the BURNHAM Cosy Comfort Boilers that has a lot to do with making their short coal bills.

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RISE IN PRICES OF MATERIALS.

Following is a list of the principle materials used in the heating industry, showing the increase in the cost of same up to May, 1917, as compiled by the "Gas Institute

Per Cent of
Increase.

Bituminous coal	86.6
Anthracite coal	18.6
Gas oil	63.9
Oxide	58.3
Copperas	50.8
Sulphuric acid	48.6
Wrought iron pipe	106.3
Wrought iron pipe—extra heavy....	30.6
Cast iron pipe	58.8
Steel pipe	57.1
Malleable iron fittings.....	75.0
Cast iron fittings—3 inch red. T...	58.8
Cast iron castings	52.2
Bolts and nuts	160.3
Brass pipe—extra heavy.....	147.4
Sheet brass	110.3
Copper rods	142.9
Sheet copper	136.8
Sheet lead	57.1
Sheet iron	25.0
Cold rolled steel	200.0
Open hearth steel	150.0
Tool steel	66.6
Plow steel hoisting cable.....	125.0
Brass cocks—1½-inch T handle.....	87.6
Kennedy valves	55.4
Packing—Crandall No. 30.....	20.4
Packing—Peerless flax	57.1
Mill board	33.3
Linseed oil—raw	92.2
Dynamo engine oil	13.3
Cylinder oil	38.9
Mill wipers	27.3
White waste	42.9
Lead wool	37.5

SPEEDY TIMBER WORK.

An example of the speedy construction possible with wood is that of the building of the quarters for the Reserve Officers' Training Camp at Fort Sheridan during the first ten days in May. 400,000 feet of the shipment

was run through the planing mills of the lumber company, and also loaded on cars in the same day.

The trainload of lumber was delivered at Fort Sheridan on Tuesday morning, May 1. The construction company had its force on the ground equipped with gasoline saws and all other devices for quick work. Ohio National Guard engineers staked out the streets and buildings. The job was finished May 10, in just ten working days, using only one shift per day. The largest number of men employed on the job at one time was 785. They built complete, ready for occupancy: 42 barracks, 20x126 feet each; 21 mess buildings, and 21 lavatory buildings, both fully equipped; 1 post exchange building, and 1 telephone exchange building.

Quick work of the same character has been done at Fort Benjamin Harrison, Indiana; at Fort Oglethorpe, Georgia, and other points. At Fort Oglethorpe, 136 buildings were erected in 12 days.

A SCHEME TO PRODUCE ARTISTIC BUILDINGS.

One method of accelerating the artistic impulse, and one that would seem to offer great possibilities, has, says the "American Architect," been adopted in the South American city of Buenos Ayres. That municipality exempts from taxation each year the most beautiful building erected during the preceding twelve months, and in addition awards a medal to the architect. A more direct form of encouragement, or one that would possess a greater appeal for the average owner, it would be difficult to devise. It is possible that the decoration of the architect may be unnecessary to the success of the plan, but doubtless it is with the idea of taking cognizance rather than paying a reward that the medal is bestowed. The plan might well receive consideration by municipalities in this country. Then, possibly, the average citizen would learn to appreciate the inherent as well as the commercial value of good architecture to an extent that might render unnecessary the offer of any special prize or distinction to induce him to co-operate in the production of architecturally meritorious buildings.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

INCLOSED PORCHES

For Winter and Summer

Specially designed to conform with the architecture of the residence. Special quotations on heating and lighting Inclosed Porches.

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ARCHITECTURE AND THE WAR

Let us look a little at what the war is compelling builders and architects to do. Has it not always been an axiom of the artistic world that to develop the art instinct the artist must travel? He must see the work of other countries, must compare it with what he finds in his own; he must bring back with him sketches of what he finds beautiful and appropriate, and in designing for his own country substitute or combine as his judgment dictates. In the years when architecture was a living art this was an essential part of the architect's education, and the best architects were invariably those that had enriched their knowledge with a liberal study of the art of foreign countries. With the great increase in numbers in the profession the proportion of those that have studied outside their own country has fallen greatly; they are content with the study of sketches and photographs now so freely circulated; the time and expense of foreign study are saved; the result is a cramping of the art. But what the profession had ceased to do for itself the war is doing for the profession. It has caught up the profession bodily and carried it out to fight in France, in Belgium, in Italy, in Greece, in the Balkans, in Turkey, in Egypt, in Mesopotamia, even in India.

Architects in great numbers have now observed some of the works of these countries and cannot have seen them without learning something from them. They have lived among these works, have experienced the climate and seen the atmosphere in which they exist, and so have learned at first hand the why and wherefore of their specialties. Such men must naturally return home with a greatly widened view of their profession; their education in the fitness and appropriateness of features in design must be very much extended; they are not likely to slip into incongruity; nor will they be blind to opportunities of introducing forms and features in their work that have impressed themselves on the mind abroad but could not be so much as seen at home. It is they who must be look-

ed to to break down the barriers that have circumscribed the art of home, just as we look to seasoned soldiers to storm the trenches.

Why do we not get beyond the eternal round of Renaissance in our public buildings, of a bastard Gothic in our ecclesiastical architecture, and of a modified mediaeval style in our domestic building? It is because we are hide-bound by convention and lack the courage to break through. Courage comes from conviction; those who have seen, have experienced, and been convinced of new possibilities in architecture, may now take the lead, and as there has sprung up a strong feeling that the after-war world must be more cosmopolitan, so, let us hope, that same world will see some more cosmopolitanism in architecture. For, after all, the truest definition of architecture is that it is an expression in form of a people's feeling.—"Indian Engineering" (Calcutta).

DO IT NOW.

All we have is just this minute

Do It Now.

Find your duty and begin it

Do It Now.

Surely you're not always going

To be "a going to be," and knowing

You must sometime make a showing.

Do It Now.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones.—Exchange.

The trouble with some advertising is that it is like the conversation of certain people—it never says anything.—"Novelty News."

DUTIES AND OPPORTUNITIES PRESENTED TO AMERICAN MANUFACTURERS BY THE WAR.

Modern war creates tremendous activity—it calls into use every material resource of a country—its whole machinery of production and distribution. A little over three years of world war have brought to this country a volume of business, the like of which we have never before known. Our power to produce has been taxed to the limit. Constructive effort—constructive selling—has often had its mettle tested during that time. Greater opportunities—greater tests are at hand.

Since it has been true that with our country at peace our prosperity has been unprecedented, what will it be with our country at war, with every effort being put forth to win? Billions of dollars bonds have been voted to pay for huge purchases of supplies. The billions of dollars provided for in the joint loan and revenue budget of the Government are equal to the total value of our enormous export trade during the past 18 months. The effect of putting this huge sum into circulation will be colossal. Its effect upon factories, warehouses, arms of transportation, are almost inconceivable at the moment.

Prosperity in all industries producing the necessities of life—food, clothing, munitions, utensils and supplies, will be limited during the next twelve months only by capacity to produce and transport. Industries producing the non-essentials may languish. From them both capital and labor may be diverted.

The farmer will produce mammoth crops. He will need quantities of wagons, trucks, plows, harrows, reapers, tractors and binders. And he will have the money to pay for them. His annual cash income has lately averaged about \$1,500. The Government estimates that in the next twelve months it will be \$2,500. Think of the purchasing power of 6,500,000 farms.

Will American business men be ready? Will they have the factory and storage capacity, the transportation facilities, to take care of this flood tide of business? Will they prepare constructively on a scale which will give full play to output with minimum waste? Or, will they drift day by day from hand to mouth in a spirit of shortsighted fear and wait for the deluge to engulf them?

The time to build is now, before materials run short, transportation becomes still more congested and labor is drafted into military service.—J. P. Bock, before the World's Salesmanship Congress.

AIR MOISTENING DEVICE FOR WARM AIR FURNACES.

A novel scheme for securing the proper degree of moisture in connection with the use of a warm-air furnace has been proposed by

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a member of the engineering division of the Iowa State College.

A slot 4 inches lang and $\frac{1}{2}$ inch wide, with the long dimension horizontal, was cut near the top of the galvanized iron furnace jacket directly over the evaporation pan. A strip of wire cloth 8 inches wide and 4 feet long was folded lengthwise through the center. A sheet of asbestos the same size was then folded in the same way. The paper was then placed between the two layers of wire cloth and sewed in place, using a wire drawn from the edge of the cloth.

This combination strip was then slipped in the hot air chamber through the slot in the furnace casing until the lower end of the strip could be drawn into the evaporating pan near the furnace bottom. The upper end of the strip was opened for a funnel.

A connection was then made in the water pipe in the furnace room and pet cock installed in this connection just above the funnel in the upper end of the combination strip. Water allowed to drip into the funnel saturates the upper end of the asbestos strip. The length of the strip depends upon the rate of supplying water and temperature within the hot air chamber. In case water is supplied more rapidly than evaporated the excess collects in the evaporation pan below. As the weather moderates the amount of water supplied the moistening apparatus should be decreased or shut off.

In case water cannot be had in the furnace room a pail filled once a day with water can be supported by a hook placed in a floor beam above the furnace. The pail should have a hole punched in the side near the bottom and a pet cock soldered over the hole. Water can then be allowed to drip slowly through a piece of small hose into the funnel at the upper end of the asbestos strip.

A small hygrometer should be hung near a thermometer in one of the rooms. If a humidity of 30 per cent. to 40 per cent. is maintained the temperature of the room can be kept at 3 to 5 degrees lower with more comfort than if the humidity is allowed to fall to 5 per cent. or less.

THE GLASS INDUSTRY IN JAPAN.

The glass manufacturing industry has made rapid strides in Japan and the export value of 1912 was estimated at 3,068,000 yen, while that of 1916 was 10,397,400 yen, an increase of over three times the former figure. The chief destinations are in the Far Eastern and Australian markets. Since the beginning of the war the demand has advanced to a large extent and there is all possibility for a continuous demand even after the war. It will be wise for the Japanese manufacturers therefore to be careful of what they ship from now on, since the crude make of goods may create a bad impression on the consumers.

In order to prepare now for future rivalry

the Department of Agriculture and Commerce has called together the manufacturers of glass goods of the nation and asked for an organized body of manufacturers. The chief purpose of the group is to inspect all goods to be exported. The standards of inspection will be from all goods for the use of the natives in the markets of China, the South Sea and Australia. At the same time many changes will be attempted so as to satisfy the demands of the consumers. In so doing a strict

inspection must be carried out with the joint action of the nation and the Government.—“The Chamber of Commerce Journal” (Yokohama).

Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Office Building, 222-26 Walnut street, \$40,000. Mather & Co. (O), 226 Walnut street. A. R. Raff Co. (C), 1635 Thompson street. Brick, 1 story, 35x137 feet, slag roof.

Power House, Twenty-sixth and Forty-fifth avenue, \$31,000. Girard Point Storage Co. (O), Broad Street Station. John N. Gill Co. (C), Otis Building. Brick, 1 story, 34x44 and 16x17 feet, slag roof.

Factory, 1315-17 Vine street, \$8,400. The Auto Radiator (O), 1317 Vine street. Frank Lucci (C), 1603 Ellsworth street. Brick, 2 stories, 30x80 feet, slag roof, steam heating.

Garage, 309 Graham street, \$400. D. A. Kerr (O), 308 North Redfield street. C. White Co. (C), 511 North Sixty-third street. Brick, 1 story, 12x17 feet, slag roof.

Garage, Sixty-first and Chestnut streets, \$1,000. Bobrow Bros (O). N. Raidman (C), 5944 Walnut street. Brick, 1 story, 20x19 feet, slag roof.

Shop, Worrell and Orthodox streets, \$300. D. Denafa (O), 4613 Hodge street. A. La Rose (C), 251 South Twelfth street. Brick, 1 story, 14x33 feet, slag roof.

Dwellings (2), Franklin and Loudon streets, \$6,000. Bauerle & Erney (O and C), 4301 N. Seventh street. Brick, 2 stories, 15x48 feet, slag roof, hot water heating.

Dwellings (2), 1209-11 Wakeling street, \$10,000. C. West & Co. (O and C), Oxford Pike and Wakeling street. Brick, 3 stories, 16x47 feet, slate roof, hot air heating.

Garage, Genwood and Dauphin street, \$2,200. Geo. Nass & Son (O), on premises. D. Henwood (C), 1509 Wood street. Brick, 1 story, 24x32 feet, slag roof.

Dwelling, 921 Catharine street, \$2,500. Mrs. M. Sorrentino (O), 915 Catharine street. M. Sorrentino (C). Brick, 3 stories, 16x43 feet, slag roof.

Freight House, Noble and New Market sts., \$50,000. P. & R. Ry Co. (O), Twelfth and Market streets. A. L. Carhart (C), Hale Building. Steel and slow burning mill construction, 1 story, 129x83 feet.

Shop Building, Twenty-sixth and Forty-fifth avenue, \$27,000. Girard Point Storage Co. (O), Broad Street Station. John N. Gill Co. (C), Otis Building. Brick, 1 story, 52x93 feet, slag roof.

Dwellings (3), Mansion avenue and Leverington street, \$3,600. M. H. Keller, Jr. (O), 326 Dupont street. Wm. E. Keller (C), 480 Harmon road. Brick, 2 stories, 16x23 feet, slag roof, hot air heating.

Dwellings (6), Castor avenue and Herbert street, \$24,000. John Frothingham (O and C), 3367 Frankford avenue. Brick, 3 stories, 16x43 feet, slate roof, hot air heating.

Dwelling, 1300 Harrison street, \$10,000. Harry C. Zeisig (O), on premises. John Frothingham (C), 3367 Frankford avenue. Brick, 2 stories, 21x65 feet, slate roof, hot water heating.

Dwelling, 723 Pine street, \$900. H. V. Cohen (O), on premises. John Friendly (C), 1023 Windrim avenue. Brick, 1 story, 18x20 feet, slag roof.

Dwellings (4), Silverwood and Hermitage streets, \$8,800. J. J. Edelstein (O), 2821 N. Twenty-third street. Wm. E. Kelli (C), 480 Harmon road. Stone and brick, 2 stories, 14x41 feet, slag roof, hot air heating.

Alterations and Additions

Store and Dwelling, Fifth and Federal sts., \$400. M. Kekelman (O), on premises. J. Vidofsky (C), 2023 South Eighth street. Alterations.

Coal Storage, 2417 East York street, \$500. H. N. Butterworth & Co. (O), on premises. Robert Beatty & Bro. (C), 2321 East Fletcher street. Fire repairs.

Wagon Shed, 328-30 North Fifth street, \$500. A. B. Lyster (O and C), 324 North Fifth street. Alterations to one-story shop.

Coal Pocket, Glenwood avenue and Broad

street, \$2,000. Kerr Hueftle Coal Co. (O and C), 2925 North Broad street. Alterations to pocket.

Dwelling, 730 W. Rising Sun avenue, \$1,200. Adolph Weicht (O and C), on premises. Brick, 3 story addition, 16x58 feet, slag roof.

Garage, Twenty-third and Ingersoll streets, \$900. Freihofer Baking Co. (O). Twentieth and Indiana avenue. Philip Haibach Cont. Co. (C), 1261 North Twenty-sixth street. Alterations.

Store and Dwelling, Sixth and York streets,

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

\$1,200. Fell's Est. (O), Seventy-first and Woodland avenue. Thayer & Co. (C), 1233 Ludlow street. Alterations, new flush bulk.

Store and Dwelling, 1914 South Sixth st., \$800. Harry Raffe (O), 2322 South Seventh street. Max J. Benamy (C), 3042 York street. Alterations.

Dwelling, 815 North Seventeenth street, \$800. Mrs. E. Gallagher (O), 610 North Seventeenth street. A. H. Landay (C), Gratz and York streets. Alterations.

Factory, Fox and Allegheny avenue, \$1,000. Alfred Wolstenhome & Sons Co. (O), Twenty-fourth and Allegheny avenue. John Platt (C), 108 Kalos street. Brick, 1 story, 55x24 and 16x34 feet.

Apartments, 1500 North Gratz street, \$500. S. Benzett (O), 308 Hale Building. F. Gray (C), 1831 North Twenty-second street. Steam heating system.

Dwelling, 1626 South Fourth street, \$300. Max Brett (O). Frank Donato (C), 1423 S. Eighth street. Brick, 12x10 feet, slag roof, 1 story.

Poultry Store, 326-28 North Water street, \$1,800. S. Fuguet (O), 312 Bullitt Building. H. Guenzel (C), 410 Buttomwood street. New brick front.

Dwelling, 1227 South Forty-ninth street, \$360. Robert Conner (O). Geo. C. Lyon (C), 631 South Forty-second street. Brick, 1 story, 13x11 feet.

Dwelling, 933 Watkins street, \$375. G. Giordano (O), on premises. A. De Marco (C), 1224 Christian street. Brick, 2 stories, 11x10 feet, slag roof.

Store, Fifteenth and Chestnut streets, \$3,500. Bonvitt, Teller Co. (O). Thirteenth and Chestnut streets. Basch & Co. (C), 1420-36 South Front street. Flush bulk and alterations.

Store, 1114 Chestnut street, \$900. John Stafford (O), on premises. Basch & Co. (C), 1420 to 36 South Front street. Flush bulk.

Store, 1204 Chestnut street, \$1,200. Schmollie Co. (O), on premises. Basch & Co. (C), 1420-36 South Front street. Flush bulks.

Garage, Sixty-second street and Lansdowne avenue, \$700. Chas Bonfig (O), on premises. A. Verdi (C), 6145 Girard avenue. Brick, 1 story, 7x15 feet, slag roof.

Dwelling, 3605 Powelton avenue, \$900. M. I. Crane (O), on premises. James F. Hallman (C), 521 Vine street. New hot water heating plant.

Dwelling, 239 E. Haines street, \$350. Chas. Cavallo (C), 5845 Osceola street. Brick, 3 stories, 16x16 feet, slag roof.

Store and Dwelling, Pike and Fairhill sts., \$1,000. P. T. Amsterdam (O), on premises. Nicholas Carvo (C), 2828 Van Pelt street. Brick, 1 story, 17x10 feet, slag roof.

Dwelling, 126 Pemberton street, \$1,500. Antoni Lichorobice (O), on premises. M. Cinollo (C), 824 Dickinson street. Brick, 2 stories, 10x22 feet, slag roof.

Dwelling, Worth and Kinsey streets, \$500. Wm. Shalloross (O), Paul and Sellers streets. New walls on side.

Bank, 427 Chestnut street, \$3,000. Farmers & Mechanic Bank (O). James H. Wilson (C), 1717 Moravian street. Brick, 1 story, 5x32 feet, tin roof.

Store and Storage, 1911 Chestnut street, \$7,800. Joseph Habesreitering (O), 1604 Chestnut street. Wm. Chas. Doll Co. (C), 201 North Broad street. Alterations.

Store and Dwelling, 754 South Front street, \$600. E. W. Clark (O), 613 Locust street. Oesavia Hillasso (C). New cellar way.

Dwelling, Wayne avenue and Lincoln drive,

\$1,200. J. J. Donnelly (O), on premises. John J. Hentley & Co. (C), 4416 Cresson street. Brick, 3 stories, 10x28 feet, tin roof.

Garage, Martha and Harold streets, \$300. H. A. Fricha (O), on premises. J. H. Gordon (C), 2314 E. Lehigh avenue. Brick, 1 story, 15x18 feet, slag roof.

Store and Dwelling, 5515 Chester avenue, \$775. D. F. Reichert (O), Treverton, Pa. J. A. Codori (C), 1235 Arch street. Extend bulk front, 1 story, 16x3 feet.

Dwelling, 1700 Westmoreland street, \$500. Mrs. Kate Keachline (O), on premises. Harry Keachline (C), on premises. Alterations.

Dwelling, 427 E. Rittenhouse street, \$1,000. A. Mella (O and C), on premises. Brick, 3 stories, 16x7 feet, slag roof.

Dwelling, 1411 North Thirteenth street, \$800. Mrs. Felitorzer (O), 1429 North Thirteenth street. J. F. Trent (O), 2041 Master street. Alterations.

Garage, 2445 North Eighth street, \$1,050. C. A. Kenan (O), 721 W. Cumberland street. H. C. Zingroff (C), 2527 North Seventh street. Alterations from stable to garage.

Dwelling, 1915 Green street, \$1,100. Ogden D. Wilkinson (O), 2010 Walnut street. Chas. Platt (C), 1015 Arch street. Brick, 3 stories, 8x9 feet, slag roof.

Passenger Station and Officers, Twenty-fourth and Chestnut streets, \$5,500. Schuyllkill River East Side R. R. Co. (O), on premises. Frame Bros. (C), Baltimore, Md. Elevator shaft from second to fourth floors.

Theatre, Broad and Cherry streets, \$1,000. Lurie Theatre (O), on premises. F. W. Van Leon (C), Denckla Building. Plumbing and alterations, new doorway.

Shop, 3111 Grays Ferry road, \$3,000. Lutz Co. (O and C), on premises. Iron on iron, 1 story, 37x40 feet.

Store and Dwelling, 1804 South Fifth st., \$150. M. Wiselmad (O), on premises. Ike Gold (C), 2028 South Fifth street. Brick, 2 stories, 10x12 feet, tin roof.

Store and Dwelling, 1156 South Eleventh street, \$600. John D. Filippi (O), on premises. Nicola Bartolomeo (C), 1241 Christian st. Brick, 2 stories, 12x28 feet, slag roof.

Factory Building, Twenty-first and Ludlow streets, \$20,000. J. J. & Jos. A. Short (O), 221 North Twenty-first street. Smith Hadden Co. (C), 1606 Cherry street. Fire damage repairs.

Warehouse, 2324-26 Susquehanna avenue, \$1,400. J. B. Gillies (O). Broad and Susquehanna avenue. Geo. Kensington (C), 2435 N. Hope street. New roof, door and window frames, fire repairs.

Garage, 3021 Aramingo avenue, \$1,600. Albert Haas (O), 3028 Memphis street. F. A. Funk (C), 2071 E. Clearfield street. Steam heating plant.

Church, Manayunk and Kraus avenue, \$5,000. The Moyer Memorial Baptist Church (O and C), on premises. Stone, second story addition, 50x70 feet, asbestos shingle roofing.

Storage Shed, 403 Richmond street, \$590. Harry L. Weaver (O and C), 1300 Beach st. Brick, 1 story, 45x20 feet, slag roof.

Lodge Rooms and Hall, 1748 North Broad street, \$1,000. Mastbaum Bros. & Fleischer (O), 1424 South Penn Square. L. A. Fowler (C), 1717 Arlington street. Alterations.

Dwelling, 1932 North Seventeenth street, \$800. Wm. Cookshott (O and C), on premises. Alterations.

Store and Dwelling, 706 Dickinson street, \$275. Wm. Mogilevsky (O), 725 Dickinson street. B. Shestack & Co. (C), 528 Reed st. New flush bulk and alterations.

Department Store, 809 Market street, \$1,000. Strawbridge & Clothier (O), Eighth and Market streets. Stacey Reeves & Sons (C), 2011 Market street. Alterations.

Store, 6137-39 Woodland avenue, \$500. J. W. Camac (O), 6211 Woodland avenue. Wm. J. Erwin (C), 5927 Kingessing avenue. Stone foundation only.

Factory, 215-17 North Third street, \$700. Henry Middenhoff (O), on premises. Thos. Dallas (C), 422 Diamond street. Boiler foundations, sotsne and brick.

Dwelling, 404 North Rittenhouse street, \$500. K. Dienstman (O), on premises. F. K. Stahl (C), 2713 North Park avenue. Brick, 1 story, 10x16 feet.

Store, 29 South Eleventh street, \$2,500. Riegel Est, care of Fell & Spalding (O), North American Building. Raith Const. Co., Inc. (C), 302 North Master street. Alterations.

Store and Dwelling, Marshall and Spring Garden streets, \$1,000. Chas. Smith (O), on premises. Max Kane (C), 871 North Sixth street. Fire damage.

Stable, 326-28 E. Allen street, \$1,500. A. L. Thomas (O), 324 E. Allen street. B. R. Groves (C), Merchantville, N. J. Fire repairs.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT. Supervising Architect's Office, Washington, D. C., Sept. 4, 1917.—Sealed proposals will be opened in this office at 3 P. M., Oct. 15, 1917, for the construction of the United States post office at Waynesboro, Va. Drawings and specifications may be obtained from the custodian of the site at Waynesboro, Va., or at this office, in the discretion of the Supervising Architect.—Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT. Supervising Architect's Office, Washington, D. C., September 15, 1917.—Sealed proposals will be opened at this office at 3 P. M., November 1, 1917, for the construction of the United States post office at Kenton, Ohio. Drawings and specifications may be obtained from the custodian of the site at Kenton, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT. Supervising Architect's Office, Washington, D. C., September 15, 1917.—Sealed proposals will be opened at this office at 3 p. m., October 29, 1917, for the construction of the United States post office at Waterloo, N. Y. Drawings and specifications may be obtained, after September 22, 1917, from the custodian of the site at Waterloo, N. Y., or at this office, in the discretion of the Supervising Architects. Jas. A. Wetmore, Acting Supervising Architect.

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Belfi Bros. & Co.....1923 Market st., Phila.
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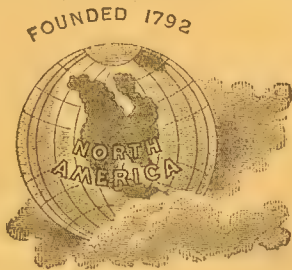
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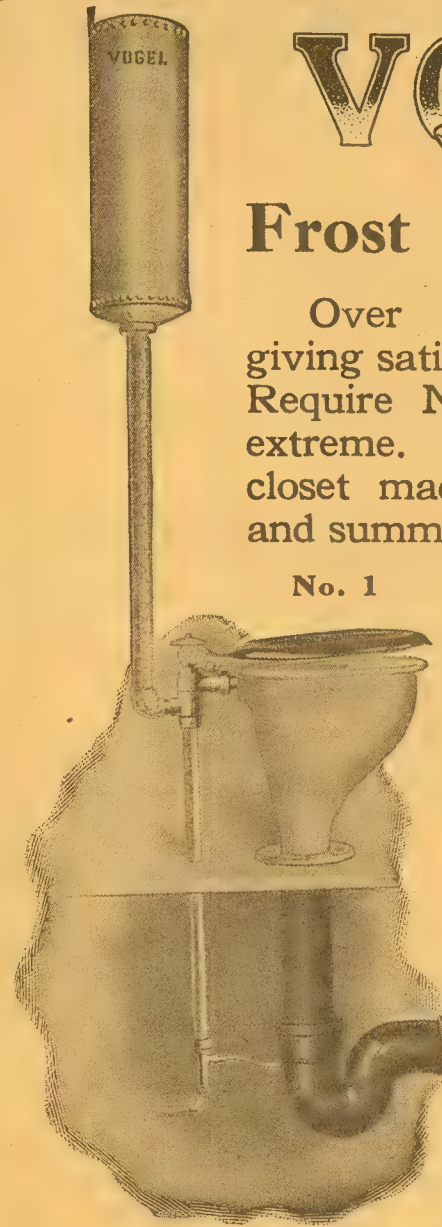
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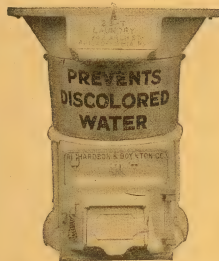
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September 26, 1917

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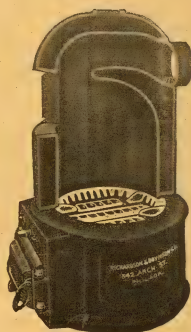
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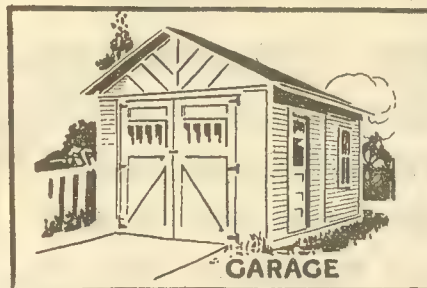
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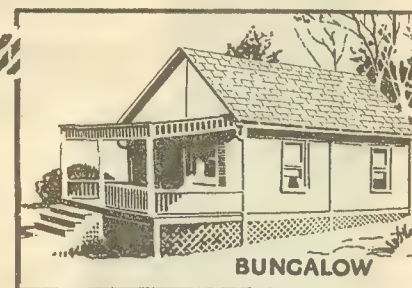
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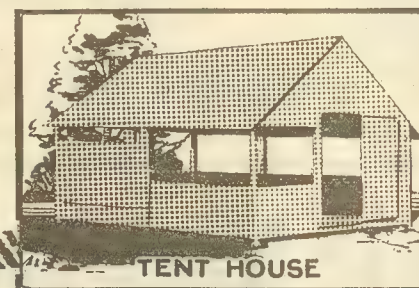
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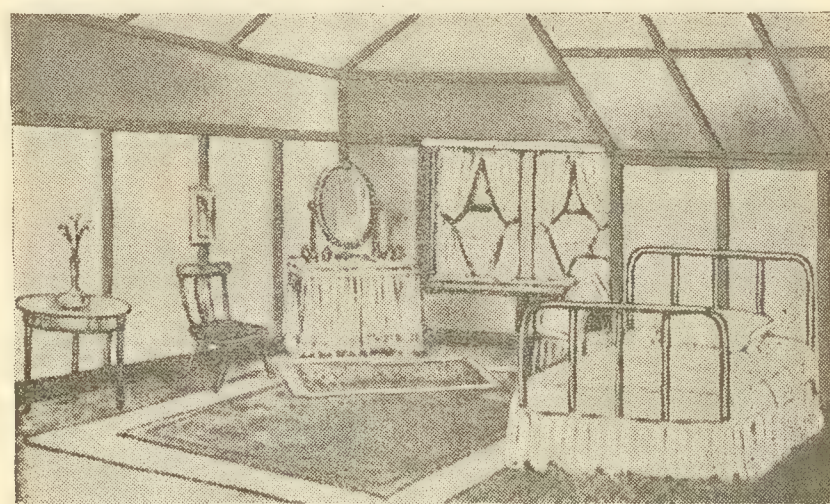
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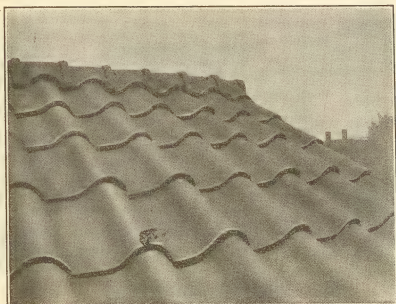
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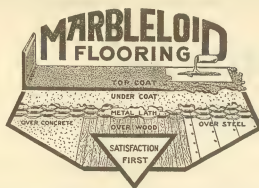
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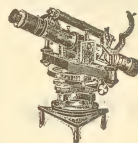
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 39

PHILADELPHIA
September 26, 1917

BUILDERS' GUIDE

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As The Editor Sees It



WHAT is wrong with the operative builder? Real estate men report the demand for dwelling houses greater than anything they have known within the past ten years. Money is easy, wages are higher than at any previous time in our history as a nation, employment is plentiful. New industrial enterprises are springing into being upon all sides, bringing with them to Philadelphia thousands of new people who must make their homes here. In the Chester district alone the new enterprises completed and under way involve a total expenditure of millions of dollars. While industries unrelated to the supply of war material have undoubtedly felt to some extent the pinch of depression the general average of prosperity is without parallel.

If the builders are holding back on contemplated operations with any hope that material prices will undergo a considerable drop, they are foredoomed to disappointment. The keenest judges in the United States upon market conditions are a unit in agreeing that not only will prices not recede during the period of the war, but that prices will not decline perceptibly for a number of years following the war. Men who take this view base their opinions upon the fact that to America, in a commanding degree, will fall the task of rebuilding the war-ravaged communities of France and Belgium. American labor, American materials, American resources generally, are to be heavily drawn upon in the

years following the close of hostilities. The result will be to create a demand that will stiffen, rather than let down price levels in the structural lines.

* * *

THE few local builders who have had the courage to go ahead with operations in spite of the general chorus of gloomy prophecy report the demand brisk with sales easier than they have been in years. Even the labor question, these men report, is actually less vexatious than was anticipated. Selling prices are perforce much higher than has been the case in former years, owing to the advance in cost of labor and material, but the advanced selling prices appear not to have interfered with sales. Home buyers have been quick to recognize the fact that it costs more money to build to-day than it did two years back. As a result they bargain fully prepared to pay anywhere from 25 to 50 per cent. more for a given type of operative dwelling than they could have been prevailed upon to pay in 1914.

How easy sales are is instanced in a real estate deal that was put through recently in lower West Philadelphia. A coterie of clever speculators took over from a builder an operation in a side street containing some 60 two-story houses. These houses, built five years back, had been rented to advantage but failed utterly to sell, presumably, at was inferred, because the price asked, \$2,800, for small street houses, was excessive as values went in that particular locality.

The houses wanted painting badly and stood in need of minor interior repairs. Well, the speculators bought in the entire block, made necessary repairs, painted the exteriors attractively, opened a sample house for inspection and got busy. Now, understand, all of this happened in the present year. The first sample house was opened for inspection in May. That house sold within two weeks. The next sample house, sold in three days. The entire operation was sold off by the 10th of the present month at \$3,000 per house, the corners bringing \$3,200.

* * *

IF this deal doesn't prove that there is a ready demand for operative dwellings, what does it prove? Here was a batch of houses that resisted all efforts to move them five years ago when they were first built. The builder found it impossible to get buyers at \$2,800. In the third year of the war a group of speculators take them over and dispose of the entire lot, without advertising, other than a sample house open for inspection, in less than five months.

It looks a lot to me as if some of the operative building element are passing up a pretty big opportunity by adhering to their present attitude of waiting for materials to take a drop in price. Materials are not going to drop and meanwhile a decidedly healthy demand is asserting itself for moderate priced homes. That the lull in building has helped to stimulate, if not to create this demand,

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**BLUE
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there is no doubt. But it has been helped also and rather materially by the thousands of new people attracted here by the big munitions enterprises. The wise operator will not be slow to perceive the wisdom of breaking ground while this demand lasts.

* * *

AN inquiry that will interest manufacturers generally is promised in the state-wide investigation of New York fire insurance rates planned by Superintendent of Insurance Jesse S. Phillips, who in a recent circular states that the average loss ratio in New York City has been \$8,000,000 as against \$25,000,000 premiums collected per year.

The Board of Estimate and Apportionment of New York City recently adopted a resolution requesting the Superintendent of Insurance to make an investigation of the fire insurance rates charged to property owners in New York City. The resolution contains a statement that the city has spent approximately \$150,000,000 for additional water supply; that it has expended large sums in the development of a high pressure water service; that it has enforced legislation for the reduction of fire hazards; that the fire department has been motorized at an enormous cost.

In compliance with the request from the Board of Estimate and Apportionment of New York City, Superintendent of Insurance Phillips proposes to make a thorough investigation, not only of the rate situation in New York City, but of the entire State. As a preliminary to this investigation he has sent a circular letter to each of the stock fire insurance companies authorized to transact the fire insurance business in New York State, requesting the companies to furnish their experience for a period of ten years, such experience to include the fire premiums collected and losses paid in each State of the Union and in New York City separately.

* * *

THE companies are also required to furnish a statement showing actual expenses incurred in transacting the fire insurance business in each of the States and territories of the United States and separately for New York City. Similar information is required regarding rates of commissions paid. The companies are also required to state in detail their activities in the matter of increasing or reducing rates on any class of risks since January 1, 1915.

It is expected that the information thus collected will materially assist in determining whether or not the rates charged in New York City, or in the State as a whole, have been consistently productive of larger profits than could reasonably be expected. When the information obtained during the course of

the investigation is such as to form a fair basis for conclusions, public hearings will be held in order to afford all interests an opportunity to present their views. For the purpose of making the investigation an exhaustive one, helpful suggestions, comments and individual views are invited by the insurance department.

The agitation on the part of manufacturers for more equitable rates has extended over many years. It is safe to assume that their position will be abundantly justified in the facts that will be brought out.

* * *

NEW anti-business phrases are being coined daily. The new crop of muckrakers have been bandying such epithets as 'profiteers,' 'war-hogs,' 'plutocracy's war' and so forth until many regard patriotic industrial leaders more or less in the light of selfish and cold-blooded war promoters," says *American Industries*. "How destructive these sensation-mongers are any well-informed person can understand.

A true measure of American business men these days makes it difficult, if not impossible, to find more broad-minded, patriotic and self-sacrificing individuals. We utter no word against the Government for its efforts to reduce prices of some essential commodities; in the interest of constructive industrial development, however, we do insist that price reduction by means of Governmental fiat is something not to be desired if any alternative which promises the same result can be discovered and utilized."

* * *

THERE are few, if any, political or economic Solomons available who can hope to fix an arbitrary price for commodities the production cost for which is enhanced to the nth degree by higher labor cost, famine or shortage of raw materials or machinery.

"Until Government officials accomplish something tangible in the much-desired direction of stimulating output, the wisdom of the price fixing policy will remain open to question. Incidentally, narrow gauge, unbusinesslike methods can never be calculated to produce maximum results in war or peace time; they who stretch an elastic rubber band must watch out for the sting of the backsnap."

* * *

THE *New York Sun* referred to the Palais de Justice at Brussels not long since as "one of the costliest and ugliest structures on the face of the earth." Whereat B. B. Valentine, a New York architect, was moved to protest. Mr. Valentine's letter is so interesting from the architectural point of view that I am giving it space here for

the delectation of THE GUIDE's readers. Writes Mr. Valentine:

"In a leading editorial article, 'The Court and the Sentence,' you say: 'There is in the city of Brussels a court building which is generally regarded as one of the costliest and ugliest structures on the face of the earth.'

"As one who has visited repeatedly this majestic Palais de Justice and admired its magnificent proportions and its ornate interior, it is surprising to me that *The Sun* should characterize it as ugly, as great authorities on architecture pronounce it a masterpiece. R. Phene Spiers, author of several architectural works, former president of the Architectural Association of England and master of the Architectural School of the London Royal Academy, says:

"No modern building on the European continent is more remarkable than the Brussels Law Courts, from the designs of J. Poelaert, an original genius in architecture, who had the good fortune to be appreciated and given a free hand by his Government.

"The design is based on classic architecture, but with a treatment so completely individual as to remove it almost entirely from the category of imitative or revival architecture; somewhat fantastic it may be, but as an original architectural creation it stands almost alone among public buildings."

"The cost was 60,000,000 francs (\$12,000,000), which, considering its size, 590 feet by 560 feet, and its wonderful commanding site on the brow of a hill at the southern extremity of the Rue de la Regence, is not large.

"It was inaugurated in 1883, the fiftieth anniversary of Belgian independence. The arch criminal of the ages should neither be tried nor sentenced in the Brussels Palais de Justice. A drum-head court-martial for him and he should be shot before daylight by the glimmer of lanterns, just as the unfortunate Duc d'Enghien met a cruel and unjust death at the hands of Napoleon in 1804."

* * *

THE reference in the concluding paragraph is to the Kaiser, the *Sun* making the suggestion that he be tried and sentenced in the Palais de Justice.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pipkin that there is either something better on the market or your specialty isn't worth a kopeck noway.

EDITORIAL NOTES

J. V. Dailey has resigned his position as special representative of the Michigan Stone Co., Detroit, and has accepted a similar position with the Chicago Branch of the Richardson & Boynton Co., New York.

* * *

The limited amount of activity noticeable in the structural steel market during the past week was almost wholly confined to orders for Governmental construction work and the small amount of industrial building that continues to progress. Although the basic price of fabricated material is slightly lower than that maintaining a few weeks ago, the fact has not been responsible for any perceptible stimulation to general building activity, and there is little likelihood of a marked improvement in the building situation throughout the country until structural steel prices are further reduced. The steel situation has for some time been the dominating factor in the recession of building construction and until steel prices are returned to a figure that is other than prohibitive, no great building movement can be expected.

* * *

Mr. William H. Besarick, architect, who was formerly located at 15 School street, Boston, Mass., has now located his office at 64 Sagamore street, Dorchester, Mass.

* * *

During the week just past it was learned that the Central Railroad of New Jersey and the Erie Railroad have both decided to withhold all of their contemplated construction until the prices of structural materials and supplies are reduced to a figure that would permit of construction on a more reasonable and just basis. Both of these roads have a considerable amount of work in prospect, and their action is important. The decision eliminates building work of every character, except that entailed in the maintenance of right of way, and other work essential to safety and efficient railroad operation. As the amounts annually expended by the railroads of this country for construction work of various types reaches a high total, the decision of these important influences will undoubtedly have a marked effect upon material manufacturers, and will probably hasten concessions in price.

* * *

O'Donnell & Wolfe announce the opening of a branch office for the general practice of architecture in the County Bank Building, Elyria, Ohio. The main office of the firm is at Sandusky, Ohio. Mr. O'Donnell, who will be in charge of the new office, desires a complete line of trade samples and catalogues sent to him there.

* * *

Continued high prices of building materials and supplies seem to be the dominating influence in the present unsatisfactory building

situation. While commodity prices hold to their present altitudes, there is but slight probability of a marked increase in construction work. The existing condition is responsible for the fact that a number of large and important industrial projects are being held in abeyance until prices are considerably lowered. The major portion of this work is for buildings for which there is an imperative demand, but owing to the high construction costs, owners hesitate to commence operations. Nevertheless, there is a grain of hope for the building fraternity in the fact that there are indications from some quarters that recessions in price are imminent, and, with the industry in general taking an attitude that no additional activity is possible at the current excessive prices, material manufacturers and dealers are very likely to co-operate for the improvement of the situation by making every possible reduction compatible with the business policies of their respective industries. By so doing they will protect their own interests.

* * *

The National Association of Purchasing Agents will hold its annual congress in Pittsburgh, Pa., on October 9-10. The details are being worked out by Robert F. Blair, Pittsburgh Gage and Supply Company, chairman of the convention committee. E. L. McGrew, of the Standard Underground Cable Company, is National Association president.

* * *

Among the subjects to be discussed by the National Tax Association at its November conference in Atlanta will be a "model" system of taxation, in the hope that the various States may have common ground to work upon in matters concerning tax reform. The perfection of such a system would carry out a much needed co-operation toward uniformity in taxation and an abandonment of conflict due to overlapping jurisdiction.

* * *

The New York office of the Baltimore Copper Smelting and Rolling Co. is now located in its new building at 128 Fourth avenue. It carries in stock ingot copper, pig tin, lead, spelter, sheet copper, copper rolls, flats and anodes.

* * *

The National Hardware Association and the American Hardware Manufacturers' Association will hold their next joint convention at Atlantic City, N. J., October 17-19, with headquarters for both associations at the Marlborough-Blenheim.

* * *

Loans and advances to the Entente Allies by the United States have reached the total of \$2,266,400,000. Of this sum Great Britain has received the largest share, amounting to \$1,105,000,000; France, \$630,000,000; Russia,

\$275,000,000; Italy, \$200,000,000; Belgium, \$53,400,000, and Servia, \$3,000,000.

* * *

The National Housing Association will hold its annual meeting at Chicago October 15-17, 1917. Headquarters, Hotel LaSalle. For information inquire of Lawrence Veiller, secretary, 105 East Twenty-second street, New York City.

* * *

The Public Service Commission is readvertising for bids for the construction of station finish for Sections 1 and 2 of the Gravesend avenue or Culver Rapid Transit line in Brooklyn, and will open bids on October 26, at 11.30 A. M. Bids were recently received upon this contract, at which time the Mortenson Wood Working Company, Inc., of Brooklyn, was the low bidder at \$666,188.50. An award was made of the contract to that company, but investigation subsequently showed that the company would experience difficulty in carrying out the contract. Thereupon, at a recent meeting of the Commission the award was rescinded and the decision reached to call for new bids, as above stated, at the new date named. Provision will be made in the new contract that the contract must be speeded to completion so that the delay caused by readvertising will not delay the completion of the line.

* * *

Stanton Freeman has resigned his position as general manager of the Carbon Iron and Steel Company, of Parryville, Pa., and has become secretary and treasurer of the Port Henry Iron Ore Company, with offices at 2 Rector street, New York City.

* * *

The danger of a shortage in the supply of tin plate has not yet been passed, according to a recent announcement by the Department of Commerce. This bulletin urged packers to use paper and fibre containers wherever possible. The estimated increase in the production of tin plate this year over last is 25 per cent. The output of tin plate for the first half of the year, according to figures compiled by the Department of Commerce, was 16,038,732 base boxes, against a total production of 26,979,994 last year. The statement says that the increasing demands for steel by the Government may necessitate a decrease in the allotments to the tin plate makers.

* * *

The American International Corporation has organized a new subsidiary, the American International Steel Corporation, to engage in the export of steel and steel products. The new company intends to develop a foreign selling organization, and will have the financial and shipping connections of the American International Corporation. Edward M. Hagar, for many years president of the Universal Portland Cement Co., the subsidiary of the United States Steel Corporation engaged in making cement from blast-furnace slag, is president. Morris Metcalf, identified in 1896 with the Illinois Steel Co. at the time of the early slag making experiments and for years assistant to Mr. Hagar, is vice-president, and J. W.

PHILADELPHIA HOUSE ARCHITECTURE

Hook, of the Allied Machinery Co., a subsidiary of the American International Corporation, is also a vice-president of the new company. Offices have been established in London and Buenos Aires and the general offices of the company are in the Equitable Building, 120 Broadway, New York.

E. B. Blandy, for the past seven years connected with Pilling & Crane, New York, has resigned to become secretary of the Northern Ore Co. of New York, which some months ago acquired the Keystone blast furnace, Island Park, near Easton, Pa.

The National Paint, Oil and Varnish Association will hold its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

ADVERTISING IS NOT A WASTE.

The favorite plaint of the business man who has fallen asleep by the wayside is that advertising is a huge economic waste; that millions of dollars are spent and wasted in artificial attempts to stimulate selling, to the ultimate injury of both buyer and seller. At first glance, and to the man who has not really studied the subject, this argument may appear logical. The only trouble with the logic is that it does not square with the facts.

"Let us see how much the big advertisers spend," says Alan C. Reiley, president of the Association of National Advertisers, in discussing this matter. "The average man hears talk every day about the millions and millions spent for advertising and he finally gets the notion that somehow or other the buyer has got to pay for it.

"I wonder if Mr. Average Man ever stops to realize that those millions spent in advertising sell hundred of millions worth of goods—goods that could never be sold so cheaply in any other way. And it is this immense saving in selling cost that helps to make low-priced goods.

"What is the exact ratio of advertising to sales anyhow? This is something that every buyer would like to know.

"The advertising of one of the leading paint manufacturers of the country averages 3½ per cent. of their total sales. In other words, for every dollar's worth of paint they sell, they spent 3½ cents in advertising. This is about equivalent to the price of a postage stamp and a cent's worth of paper for every dollar's worth of goods sold. Another big paint and varnish manufacturer spends from 3¼ to 4¼ per cent.

"Next take clothing. We have obtained figures concerning two of the biggest clothing manufacturers in the country. One spends 1½ per cent.; the other 2 per cent. An equally prominent shoe manufacturer spends 1½ per cent."

This is the age in which one man DOES ONE THING. You can run your BUSINESS. Find a man who can RUN YOUR ADVERTISING.

Philadelphia stands pre-eminent in American house architecture. In fact, we may begin to ask the question whether Philadelphia architecture is not the most vital art development in this country to-day. While discerning spirits have searched feverishly in music, in painting, and in other arts, minutely examining the work of each new individual in the hope of discovering some evidences of a rising native school, in the Pennsylvania city a group of architects, working sincerely and without ostentation, have come far along the road towards the cherished goal.

The more one studies the Philadelphia school the more attributes does one find in it of an enduring success. Principally, it suffers less than any other from that overwrought individualism which is the burden of modern art. In Philadelphia, our strongest impression is somehow that the work of the community as a whole is greater than that of any individual; whereas in New York, with all the excellent work accomplished there, we do not have this feeling with anything like the same distinctness—there architecture appears as the unrelated work of individuals, many of them men of exceptional ability. Nor is this difference between the two cities due to lack of men of strong individuality in Philadelphia; for, as we all know, the latter city has furnished her full quota among the brilliant leaders of the profession.

To test the truth of her architectural excellence one need only motor through the suburbs of Philadelphia. There one will be astonished at the rare unity of architectural effect of nearly all the houses, small as well as large, grounds as well as houses; and one will note that they harmonize remarkably, appearing as parts of a whole community, similar to those communities we are wont to admire in England. The small houses compare well with the large ones, and the works of less known architects stand up well beside their more prominent fellows. Suburbs elsewhere in this country are, the best of them, a jumble of houses of all styles and degrees of excellence. Nor is there anything imitative about all this. Philadelphia suburbs have the open aspect of neighborliness, the expansive porches and large sun-welcoming windows, the cheerful touches of white painted wood that indicate the American temperament—all in contrast to the walled privacy, the more sombre colors and the toy-like scale which are essentially Britannic. It is true that there is some English influence in Philadelphia architecture. This is not strange when one considers that Philadelphia has remained Anglo-Saxon and that many of her architects have English leanings. Mr. Frank Miles Day received some of his early training in London offices, and Mr. Eyre's sympathy with English work, especially in interiors, is well known. These overseas influences do not, however, in the least weaken the American character of Ardmore, of Rosemont, of Haverford, for they

follow, either literally or in spirit, early American architecture, Georgian or Colonial, of which splendid models are found in the Philadelphia countryside, and which has come down to them in an almost unbroken tradition to the present day.

To discover the secret of the Philadelphia school we should know more of Philadelphia itself. If its architecture is superior to that of other American cities, it is because Philadelphia civilization is in some respects superior and is certainly more clearly defined than the civilization of other cities. An old community, it is in a district of great industrial resources and rich farm lands, where the ideal of fine homes and comfortable living has been cherished for generations without interruption. New England, with her harsh climate and barren soil, with her Puritan ancestry, turned more to intellectual and literary traditions; while Philadelphia, to whom nature has appeared in a softer mood, has preferred the cultivation of urbanity, of manners, of the art of living in its more material phases. The Quaker City instinctively perceived the fallacy of "plain living and high thinking." In this cult of the home in Philadelphia nothing has been neglected. Nowhere is good cooking so well appreciated as there. Even the strict Quakers of two generations ago could not resist the delights of dining and those of their more worldly neighbors still living will tell you with amusement that people liked to visit the homes of the Friends, since the best tables in Philadelphia were to be found in them.

One might multiply these incidents indefinitely. They point to an existence of a community art—that is, an instinctive appreciation of an art product and a demand for such, on the part of those termed "clients," who in the course of several generations have succeeded in arriving at such unanimity of art opinion that it stamps itself more or less strongly on the work of individual artists. As a proof of the strength of her tradition, Philadelphia was never engulfed in Victorianism as were nearly all other English-speaking communities. While elsewhere brownstone horrors were built, Philadelphia still clung to the simplest, post-"Colonial" type of house, and even in the seventies lined her streets with those severely plain three-story, flat-roofed brick houses of small panes, of white marble lintels and sills, and white marble steps that housewives caused to be scrubbed so industriously. Monotonous and uninspiring they were, but they were in good taste and scale and they served to keep the chain of heritage from breaking.

It is as if Philadelphia, while the rest of the world stumbled in the mud of nineteenth century confusion, had at least the grit to stock to her own. If she was somewhat bewildered and had lost her impulse, at least she would not rot away.

The contemporary twentieth century work

is far superior to its mid-Victorian predecessors in the esthetic virtues, yet it retains the same honest directness which at times points to that inevitableness that is the eternal in art. Though firm in tradition, it carries no burden of formulae nor of bookishness. Free and supple in expressing conditions, it allows plenty of play to the individual and to the vivacity of modern Americanism. This is a fourth excellence to be added to the other three, of community expression, strong tradition and honesty.

Perhaps these conditions explain an odd fact, which is, that Philadelphia architects may occasionally make mistakes of scale or proportion without somehow much impairing their work. What they do is apt to have a character and rightness that is innate and which is too superior to be harmed by a few errors. A striking proof of this is to be found "somewhere in New Jersey," where in a small town two buildings similar in size and purpose stand near together on the same street. One is the work of a well-known New York firm; the other of Philadelphia architects. The New Yorker's building is faultless, in fine scale, exquisitely drawn and detailed. The Philadelphian's building is not so "knowing" in its details; on a drawing it looks commonplace, even slightly clumsy, and the interior has three slightly different scales in the large entrance hall and main stairs. Yet, seen in place, the honors all go to the latter. It is splendid in character, in surety of design, in color, and in that unconscious good breeding that affords more than anything else supreme good style. The New York work is fine architecture; the Philadelphia one is fine art.—John Taylor Boyd, Jr., in "Architectural Record."

A BLOW AT AMERICAN MAIL ORDER HOUSES.

The Government of the Republic of Panama has recently passed a law providing, among other things, that foreign companies doing business in Panama shall have a resident agent or representative in the country. The same companies must also invest \$100,000 dollars (about £20,500) in real estate in Panama or deposit this sum in the National Treasury or in an approved bank. Apparently this measure is aimed at the mail order houses, so common in America, who do an enormous business with the South American republics without contributing anything to their national revenues.—"Commercial Review" (London).

AMERICA TO REBUILD.

Before American competition with Germany is in full swing, and before Danzig can be got ready to act as a base for American, French, and English trade in the Near East, Poland will be building herself up out of the ruins. Here again America, side by side with England and France, will come to the rescue, for gigantic amounts of money and work will be needed for the task and the country, without outside assistance, would be helpless. American builders, experienced in undertak-

ings on a large scale, will be welcomed in this field by the Poles. Besides bridges, roads, railways, factories, and farms, thousands of villages and towns will have to be planned and built quickly to provide shelter for the wretches now living in miserable barracks, in dugouts, or out in the forests, and also for the hundreds of thousands of Polish refugees who will return from Russia as soon as the inferno of battles round their former homes will have ceased raging.—"Chicago Tribune."

UTILIZING OLD VARNISH.

Varnish of good quality that has become thick or gummy by exposure may be treated so that it is again workable and useful, according to the "Painters' Magazine." The success of the treatment, however, depends altogether upon the degree of saponification. When the varnish has lost its volatile thinner and has become stringy and ropy, there is no process that will bring it back to life, without which it is not safe to use. Linseed oil, at any rate, no matter how highly heated, will not redissolve the resinified oil and gum. If not too far gone, turpentine or benzine will take some action on the residue by heat, but it will hardly pay for the risk and trouble. When the varnish has simply thickened to a certain extent, it can be made workable by placing the container in a hot water bath and heat up some turpentine or benzine in the same manner and to a like temperature, then mix by thorough stirring.

METAL CEMENT.

Plumbers, steam fitters and householders have found extremely useful the metal cement now on the market that is said to have wide application in stopping leaks. The composition may be applied like putty. It readily with stands high pressure, is not affected by vibration and expands and contracts under different temperatures the same as metal. The manufacturers of this cement claim that it is easy to apply in the following manner: Clean and dry thoroughly and slightly warm the parts to be repaired, removing all oil and water, grease, rust, or dirt; mix powder and liquid into putty; plug leak carefully with the mixture and allow thirty minutes to harden thoroughly.

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STEEL BRIDGE STANDARDS.

Not so many years ago the strength of the bridges on country roads was of relatively little importance. Traffic was light and individual heavy loads rare. The design of steel bridges received scant attention from road officials and the erection of the structures even less.

The pleasure car and the motor truck have changed conditions. At present the utility of a road depends in a large measure upon the strength of its bridges. The old haphazard methods of providing bridge structures are fast being superseded by better ones. Ready-made, "tin" bridges are less commonly sold by bridge companies, and the designing of highway bridges is more and more being done by competent engineers working in the interest of the purchaser and not the seller. As a result, adequate structures are replacing the unsightly, weak bridges once so common throughout the rural districts.

One factor that has entered largely into the improved conditions of recent years is the work that has been done by central highway authorities in aiding the smaller units in their bridge work.

Comparatively little of the total road mileage is made up of bridges, but from the standpoint of the utility of the highways the bridges are of very great importance. Good roads necessarily include good bridges.—"Good Roads" (New York).

PENALIZING WOOD SHINGLE ROOFS.

Communities in the South that continue to tolerate the free use of wood shingles as roof coverings and the fire menace it entails, in future must pay for the privilege, the insurance companies having flatly refused at many points to assume the hazard of such risks without receiving additional premium.

At Birmingham, Ala., following the repeal of the safety anti-wood shingle roof act, rates upon all structures using them were advanced a flat fifteen per cent. This action by the underwriters caused consternation in the lumber camp, but its reasonableness cannot be questioned.

By order of the Texas Rate Making Board, all properties covered with wood shingles must pay a penalty of twenty-five cents instead of fifteen cents as heretofore.

Although located in the heart of the hard-wood district, Asheville, N. C., a short time ago adopted an ordinance barring the future use of wood shingle roofs; repairs upon existing structures are permitted only to the extent of twenty per cent. Further, it is required that present wooden roofs be replaced with those of an incombustible character within nine years.

Baton Rouge, La., too, has fallen into line in legislating against this form of fire danger, and its example in all probability will be speedily followed by that of other communities in the State. The inexorable logic of events has decreed that—The Wood Shingle Must Go!—"Construction" (New York).

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Shop and Garage, Twenty-sixth and Oregon avenue, Philadelphia, \$23,000. Architect, private plans. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Brick, 1 story, 49x226 feet, slag roof, steam heating, electric lighting, hollow metal skylights, cement floors. Owners will build.

Residences (200), Thirteenth and Butler streets, Philadelphia. Architect, private plans. Owner, Mark Haller, 2610 South Second street, Philadelphia. Brick and stone, 2 stories, 20x40 feet, slag roof, hot water heating, electric and gas lighting. Plans in progress. Owner will be ready for sub-bids in two weeks.

Buildings (3), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Govt., care of Col. Geo. Montgomery, Frankford Arsenal, Philadelphia. Reinforced concrete, stone and brick; artillery ammunition assembling shop office, 1 story, 70x29 feet; small arms ammunition storehouse, 2½ stories, 123x87 feet; primer and artillery planing and riveting shop, 3 stories, 122x52 feet and 38x25 feet, slate and slag roofs, composition, maple and cement floors, hollow tile, metal lath, rolled steel sash, hollow metal skylights, fire and kalamein doors, fire escapes, roof ventilators, metal window guards, waterproofing, ornamental iron work, wire work. Owners have received bids.

Church and Sunday School, Fifty-ninth and Pine streets, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, New Berean Baptist Church, care of Rev. Geo. Lockett, 36 Chestnut Terrace, Philadelphia. Stone, 1 story and basement, 100x92 feet, slate roof. New plans in progress.

Boiler Room (add.), West Philadelphia Shops, \$7,000. Architects, M. of W. Dept., Room 361, Broad Street Station, Philadelphia. Owners, Penna. R.R. Co., Broad Street Station, Philadelphia. Brick, 1 story, 23x51 feet, boiler foundations, built up roof, brick floors. Plans completed. Owners, care of A. B. Clark, Superintendent, Philadelphia Terminal Division, Thirty-second and Powelton avenue, will take bids.

Garage, 1524 Loudon street, Logan, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Simon J. Klein, on premises. Brick, 1 story, 20x40 feet, slag roof, hot water heating, electric lighting, cement floors. Owner taking bids, due in one week. Harry P. Werner, 3419 Old York road, and Frank K. Stahl, 2713 Park avenue; Thos. C. Trafford, 1613 Sansom street, are figuring.

Storage Building (alt.), 429 Spruce street, \$3,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, M. Feitelson & Son, on premises. Brick, 3 stories, consists of general interior alterations, carpenter and millwork, plumbing, electric

lighting, pine floors, plastering, office partitions, metal ceilings. Architect taking bids, due September 26th. H. Seidman, 1312 N. Sixth street; J. Bender, 1817 South Fourth street; P. A. Sorensen, 422 North Twelfth street; J. Gorchov, 4116 Girard avenue; H. P. Schneider, 3713 Old York road, are figuring.

Garage, 224 Arch street, Philadelphia. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, Chas. McNamee, care of architects. Brick, 1 story, 51x130 feet and 51x88 feet, slag roof, cement floors, steam heating, electric lighting, hollow metal sash and skylights, roof ventilators, wire work. Architects taking bids, due September 29th. Thos. C. Trafford, 1613 Sansom street; H. E. Sweger, 4435 North Uber street; Philip Hainbach Cont. Co., Twenty-sixth and Thompson streets; Conneen Const. Co., 1737 Filbert st.; Freund Const. Co., Bulletin Building, and Evans Const. Co., 9 South Eighteenth street, are figuring.

Motion Picture Theatre, Queen lane and Schuyler street. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Queen Lane Theatre Co., care of architect. Brick, 1 story and balcony, 28x140 feet, slag roof, tile, asbestos and composition floors, steam heating, electric lighting, tile, marble and terrazzo work. Architect taking bids, due as soon as possible. Standard Const. Co., 1713 Sansom street; Alexander Chambley, Twenty-first and Summer streets; John V. Speth & Co., 1714 Sansom street, Philadelphia, and Butz & Clader, Allentown, Pa., are figuring.

Residence and Garage (alt. and add.), 1103 Sixty-ninth avenue, Oak Lane. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, John D. Williamson, Jr., on premises. Brick and stone, 1 story addition, 18x18 feet; garage, 1 story, 12x18 feet, slate and tin roof, canvas, concrete and pine floors, hot water heating, electric lighting, tile, marble and terrazzo work. Architect taking separate bids on plumbing, hot water heating and tile work. Architect has received bids. and tile work. Architect has received general bids.

Quarters for Radio Operators, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, F. R. Harris, Chief Navy Department, Bureau of Yards and Docks, Washington, D. C. Brick, 2 stories, 55x27 feet, asbestos shingle roof and tin roof, hot water heating, electric lighting. Owners taking bids, due October 1st. Hogg Const. Co., 1634 Sansom street; W. W. Anstine & Co., 1218 Filbert street; Metzger & Fisher, Otis Building, and Conneen Const. Co., 1737 Filbert street, are figuring.

Residences (3), Phil Ellena street and Lincoln Drive, \$24,000. Architect, private plans. Owner, James A. Mitchell, Forty-sixth and Market streets, Philadelphia. Stone and brick,

3 stories, 37x28 feet, slate roof, hot water heating, electric lighting, hardwood floors. Work about to be started.

Garage and Sales Building, 3017-23 North Broad street, Philadelphia. Architect, private plans. Owner, C. I. Stein, Liberty Building, Philadelphia. Brick and reinforced concrete, 2 stories, 80x100 feet, slag roof, steam heating, electric lighting, concrete floors, hollow tile, elevators, hollow metal sash, fire and kalamein doors, iron stairs, dampproofing. Conneen Const. Co., 1737 Filbert street, taking sub-bids, due as soon as possible.

Buildings (6), Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, care of F. R. Harris, Chief, Navy Department, Bureau of Wharves and Docks, Washington, D. C. Reinforced concrete and brick, galvanizing plant, 1 story, 61x122 feet; oxyacetylene generating plant, 1 story, 64x64 feet; engine house, 1 story, 69x1400 feet; locker house, No. 1, 2 stories, 57x109 feet, and locker house, No. 2, 1 story, 57x79 feet; two ramp toilets, 1 story, 15x67 feet, ready and slag roof, cement floors, steam heating, electric lighting, rolled steel sash, fire doors, ornamental iron work, metal lath, safety treads, roof ventilators, wire work (plumbing reserved). Owners taking bids, due October 8th. Metzger & Fisher, Otis Building; Warren-Moore & Co., Colonial Trust Building, and F. W. Mark Const. Co., Finance Building, are figuring.

Residence (alt. and add.), Gowen avenue and Ardleigh street, Mt. Airy. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, Frank P. Brooke, 7420 Boyer street, Philadelphia. Stone, 2½ stories, two-story frame porch addition, slag roof, hardwood floors, tile work (plumbing, vacuum heating, electric work and composition floors reserved). Revised plans about completed. Will be ready for bids in a few days.

Garages (35), Whitby avenue and Fifty-third street, Philadelphia, \$6,000. Architect, private plans. Owner, John F. Holland, 309 South Fifty-first street, Philadelphia. Brick, 1 story, 130x34 feet and 117x17 feet, slag roof, cement floors, hot air heating, electric lighting, gasoline storage system. Owner taking sub-bids.

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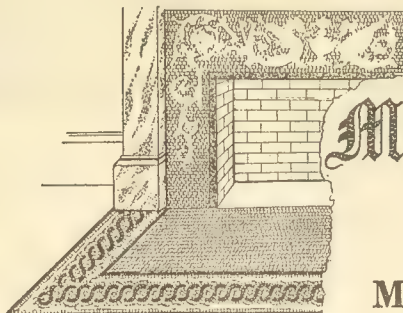
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Building News Publishing Co.,
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John A. Fitzpatrick, Notary public.
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Power Plant, Thirty-fourth and Pine sts., \$252,000. Architect, Philip H. Johnson, Land Title Building, Philadelphia. Owners, Philadelphia General Hospital, care of Dr. Wm. Krusen, 584 City Hall. Brick and stone, 1 story, 158x33 feet, 50x52 feet and 88x80 feet, slag roof (steam heating, plumbing and electric work reserved), marble and terrazzo work, rolled steel sash and skylights, hollow metal sash, cement floors, metal lath, fire and kalamein doors, iron stairs, ornamental iron work, dampproofing. Contract awarded to Standard Const. Co., 1713 Sansom street.

Power Plant No. 4 (alt. and add.), Sixth and Columbia avenue, \$8,000. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Henry A. Sheip Mfg. Co., Sixth and Columbia avenue, Philadelphia. Reinforced concrete and brick, 5 stories, slag roof, cement floors, hollow metal sash skylights and doors, fire doors, waterproofing. Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Institute (fire tower), 1818 Spring Garden street, \$2,500. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, Russian Bible & Educative Society, care of architects. Brick, 4 stories, 8x16 feet, slag roof, concrete floors, electric lighting, plastering, kalamein doors, ornamental iron work. Contract awarded to F. B. Davis, 240 North Sixteenth street, Philadelphia.

Nurses Home (add.), Fifteenth street, above Race street, Philadelphia, \$25,000. Architect, private plans. Owners, Hahnemann Hospital, on premises. Brick and reinforced concrete, fireproof, 6 stories and basement, 38x21 feet, slag roof, steam heating, electric lighting, tile

and marble work, hollow metal sash, cement and pine floors, metal lath, metal weatherstrips, dampproofing. Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Show Rooms and Service Building, 1627-29 Arch street, \$60,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Overland Motor Co., 323 North Broad street, Philadelphia. Reinforced concrete, brick and terra cotta, 2 stories and basement, 70x257 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, cement and tile floors, (1) elevator. Contract awarded to Cramp & Co., Denekla Building, Philadelphia.

Store and Residence (alt.), 1527 Walnut st., Philadelphia. Architect, Geo. S. Idell, 34 S. Sixteenth street, Philadelphia. Owners, Hughes & Muller, on premises. New front, brick and cut stone, painting, millwork, marble work. Contract awarded to Hogg Const. Co., 1634 Sansom street, Philadelphia.

Garage, 6401 Drexel Road, Philadelphia, \$2,000. Architect, private plans. Owner, Mrs. F. D. Casanave, 6401 Drexel Road, Philadelphia. Brick, 1 story, 15x23 feet, tile roof, cement floors, steam heating, electric lighting (gasoline storage system reserved). Contract awarded to Milton W. Young, Overbrook, Pa.

Factory, Twentieth and Godfrey streets, Philadelphia, \$7,100. Architect, private plans. Owners, H. F. Stott, 2517 Cheltenham avenue, Philadelphia. Brick, 1 story, 49x55 feet, slag roof, pine floors (heating and lighting reserved), rolled steel and hollow metal sash. Contract awarded to Stokes Bros., 6723 Musgrave street, Philadelphia.

Office Building, Tacony, Philadelphia, \$30,-

000. Architect, Thomas B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corp., Tacony, Philadelphia. Brick, concrete and hollow tile, 2 stories and basement, 44x50 feet, slag roof, cement floors, steam heating, electric lighting, rolled steel sash, steel doors, iron stairs, metal lath. Contract awarded to Barclay White & Co., 1713 Sansom street.

Elevator Shaft, 1732 North Randolph street, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, McNeely & Co., on premises. Brick and steel, 6 stories, 9x11 feet, hollow metal skylights, fire and kalamein doors, concrete work, wire work (elevator and electric work reserved). Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Demolition (residences), Orianna and Brown streets, Philadelphia. Owner, Rt. Rev. Archbishop E. F. Prendergast, Eighteenth and Race streets. Consists of removal of dwellings on future site of St. Agnes' R. C. Church parish buildings. Contract awarded to Anthony Ziernicki, 1632 Hunting Park avenue.

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PENNSYLVANIA Construction News

Residence, Easton, Pa. Architects, Martin & Kirkpatrick, 130 South Fifteenth street, Philadelphia. Owner, name withheld. Brick or stone, 2½ stories. Plans in progress.

Monument and Vault, Westminster Cemetery, Barmouth, Pa. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owner, Jos. Gaidas, care of American Brewing Co., Thirty-first and Master sts., Philadelphia. Granite, marble and brick, 14x17 feet, cement and slate work. Architect taking bids. Westminster Cemetery Co., 1409 Arch street; Edw. A. Carroll Co., Pencoyd, Pa.; John M. Gessler Sons, Thirty-ninth and Baltimore avenue; Smith Granite Co., Real Estate Trust Building; Thos. Delahunty, 3821 Ridge avenue; Vermont Marble Co., Twenty-second and Westmoreland streets; John M. Ferguson, 3489 Ridge avenue; W. A. Wafer, 1249 Ridge avenue; Jacoby & Son, 2025 Market street, are figuring.

Barn (alt. and add.) and Out Buildings, near Reading, Pa. Architects, Duhning, Okie & Ziegler, 1216 Chestnut street, Philadelphia. Owner, J. Barlow Cullum, care of architects. Stone and frame, 1 and 1½ stories, various sizes, shingle roof, cement, pine, cork and brick floors, wire work (lighting reserved). Architects have received bids.

Residence, Ridley Park, Pa. Architect, private plans. Owner, Mr. Stephan, care of Harry W. Koch, Drexel Hill, Pa. Hollow tile, 2½ stories, 45x26 feet, Spanish tile roof, hardwood floors, hot water heating, electric lighting. H. W. Koch, Drexel Hill, Pa., taking sub-bids.

Residences (3), Drexel Hill, Pa. Architect, private plans. Owner, Harry W. Koch, Drexel Hill, Pa. (1) hollow tile, 45x26 feet; (2) stone and frame, 2½ stories, 28x40 feet and stucco and frame, 3 stories, 20x36 feet, Spanish tile and asphalt shingle roofs, hardwood floors, hot water heating, electric lighting. Owner taking sub-bids.

School, Dunmore, Pa., \$25,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board of Dunmore, Ed. P. Moore, Secretary, Dunmore, Pa. Frame, 2 stories, 4 rooms, slate roof, pine floors (steam heating, electric lighting and plumbing reserved). Owners taking bids, due September 27th. A. A. Kearney and E. F. Work, both of Scranton, Pa., and Peck & Carmody, Dunmore, Pa., are figuring.

Store Front, 225 Lackawanna ave., Scranton, Pa. Architect, E. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, John Rawlings, Penn avenue, Scranton, Pa. Brick,

1 story, metal bulks. Owner taking bids, due as soon as possible. Tranger & Son, Scranton, Pa., and Peck Lumber Co., Peckville, Pa., are figuring.

Stores and Apartments (alt.), 41 S. Washington street, Wilkes Barre, Pa., \$9,000. Architect, Geo. F. Schroeder, Weitzenkorn Building, Wilkes Barre, Pa. Owner, Katherine W. Maycock, on premises. Brick, 3 stories, slag roof, city steam heating, electric lighting, tile and marble work (plumbing reserved). Architect taking bids, due September 26th. Henry Mellan, Walburn & Barney and O. J. Behrens & Son, all of Wilkes Barre, Pa., are figuring.

School, Foster Township, Pa. Architect, Owen McGlinn, Simon Long Building, Wilkes Barre, Pa. Owners, Foster Township School Board, Foster Township, Pa. Brick or frame, 1 story, 4 rooms, slate roof, steam heating, pine floors. Owners taking bids, due September 26th. James Boyle, Freeland, Pa., is figuring.

Factory Building (add.), North Penn avenue, Wilkes Barre, Pa., \$10,000. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owners, Press Steel Co., Wilkes Barre, Pa. Concrete, 1 story, 57x80 feet, slag roof, concrete floors, steam heating, electric lighting, rolled steel sash, fire doors. Architect has received bids.

Store and Apartments, Forrest City, Pa. Architect, Benj. Crowther, Miller Building, Scranton, Pa. Owner, Louis Klein, Forrest City, Pa. Frame and stucco, 3 stories, 22x57 feet, slag roof, pine floors (steam heating and plumbing reserved), electric lighting. Owners taking bids, due as soon as possible. Forrest City Lumber Co. and E. A. Bloxham, both of Forrest City, Pa., are figuring.

Sun Parlor (State Hospital), Franklin ave. and Mulberry street, Scranton, Pa. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owners, Board of Managers, care of Silas P. Walter, Secretary, State Hospital, Scranton, Pa. Brick and frame, 1 story, 20x30 feet, slag roof, wood floors (steam heating and electric lighting reserved). Owners have received bids.

School, Dickson City, Pa., \$45,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board of Dickson City, Dickson City, Pa. Frame and stucco, 2 stories, 112x50 feet, slag roof, steam heating, electric lighting, pine floors, metal lath. Plans in progress.

Power House, Scranton, Pa. Architects, Duckworth Bros, Coal Exchange Building,

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Seranton, Pa. Owners, Maccar Truck Co., Seranton, Pa. Brick, steel and reinforced concrete, 1 story, 32x42 feet, asbestos roof, electric lighting, rolled steel sash, cement floors. Plans in progress. Architects will take bids in a week.

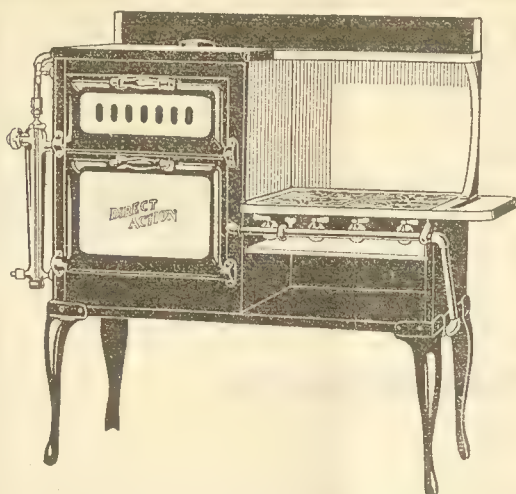
Apartment House, South Washington street, Wilkes Barre, Pa. Architect, Frank Sahm, Wilkes Barre, Pa. Owner, name withheld. Brick, 3 stories, 44x64 feet, tin roof, oak floors, electric lighting (plumbing reserved). Plans in progress.

Garage, Wilkes Barre, Pa. Architect, Henry Maier Coal Exchange Building, Wilkes Barre, Pa. Owners, Maier Bros., Coal Exchange Building, Wilkes Barre, Pa. Brick, (slow burning construction), 1 story, 90x165 feet, slag roof, cement floors, electric lighting, gasoline storage. Plans in progress.

Market House Wilkes Barre, Pa. Architects, McCormick & French, Wilkes Barre, Pa. Owners, East Market Street Assoc., Wilkes Barre, Pa. Brick, 1 story, 90x150 feet, slag roof, cement floors, steam heating, electric lighting, hollow metal sash and skylights, waterproofing (refrigerating plant reserved). Architect has received bids.

Ward Building and Superintendent's House, Fairview, Wayne County, Pa. Architect, J. C. M. M. Shirk, 421 Chestnut street, Philadelphia. Owners, State Hospital for Criminal Insane, H. G. Ashmead, Secretary, Room 284, City Hall, Philadelphia. Ward building, brick, stone and hollow tile, 2 stories and basement, 43x34 feet and 43x75 feet; superintendent's house, 2½ stories, 31x73 feet, slate and slag roof, cement, pine and oak floors, tile, marble and terrazzo work, hollow metal skylights, fire doors, iron stairs, ornamental iron work, metal lath, roof ventilators, wire work (plumbing, steam heating, electric work, elevators and ventilating reserved). Owners taking bids, due September 28th. Roydhouse-Arey Co., 112 North Broad street, is figuring.

High School, Eighth and Fulton streets, Chester, Pa., \$500,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, City of Chester, Board of Education, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone and reinforced concrete, 4 stories and basement, 240x115 feet, slate, J-M or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamein doors, hollow tile,



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metal lath, safety treads, roof ventilators, dampproofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work, ventilating and furniture reserved). Owners have received bids.

Bungalow, Oakmont, Pa. Architect, James Warren Neff, Forty-seventh and Spruce sts., Philadelphia. Owner, Edward Chew, Oakmont, Pa. Stone and plaster, 1 story, 31x37 feet, tin and shingle roof, electric lighting. Architect taking bids, due September 26th. Hogg Const. Co., 1634 Sansom street, is figuring.

Garage and Hall Building, Eighth and Bingham streets, Reading, Pa. Architect, G. C. Freeman, Reading, Pa. Owner, Michael Wolicka, on premises. Brick, 1 story, 65x50 feet, slag roof, pine floors, electric lighting, metal lath, gasoline storage system. Revised plans about completed.

Residences (6), Wyomissing, Pa. Architect, H. J. Maurer, Baer Building, Reading, Pa. Owners, Wyomissing Development Co., Wyomissing, Pa. Brick and frame, 2 stories, 26x30 feet, slate roof, pine floors, hot air heating, electric lighting. Plans completed. Owners will build.

Residence, Wyomissing, Pa. Architect, J. D. Lance, Reading, Pa. Owner, H. Guenther, Reading, Pa. Brick and stucco, 2½ stories, 32x30 feet, slate roof, hardwood floors, electric lighting, hot water heating. Plans in progress.

Foundry Building, Stowe, Pa. Architect, George Gerhard, Reading, Pa. Owners, Stanley G. Flagg & Co., Stowe, Pa. Brick, 1 story, 168x53 feet, slag roof, electric lighting. Plans about completed. Architect will take bids in a few days.

Store (alt.), Seventh, above Edgemont avenue, Chester, Pa. Architects, Lashman & Murphy, Drexel Building, Philadelphia. Owners, Robert Howarth Sons, Chester, Pa. Brick, 1 story and basement, 125x25 feet, new bulk windows, metal marquee, hardwood floors, cabinet work, millwork, vault lights, electric lighting, plastering and painting. Architects taking bids, due as soon as possible. Wark-Yardley Co., 1737 Filbert street, Philadelphia, and Ward Co., Chester, Pa., are figuring.

School, Ashland Heights, Montgomery Co., Pa. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, superintendent of schools, Ardmore, Pa. Stone, hollow tile and stucco or brick veneer, 1 story and basement, 158x172 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, gre and kalamein doors, metal lath, roof ventilators, metal weather strips, waterproofing, dampproofing, wire work, ornamental iron work (plumbing, heating, ventilating and electric work reserved). Architect will take revised bids in about one week.

PENNSYLVANIA

Contracts Awarded

Manufacturing Building (add.), Third and Palmer streets, Chester, Pa., \$9,000. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, A. H. Wirz, Inc., on premises. Brick (mill construction),

2 stories, 28x45 feet, slag roof (steam heating, electric lighting, elevator and sprinklers reserved), cement and maple floors, rolled steel sash, hollow metal skylights. Contract awarded to R. C. Ballinger & Co., 218 North

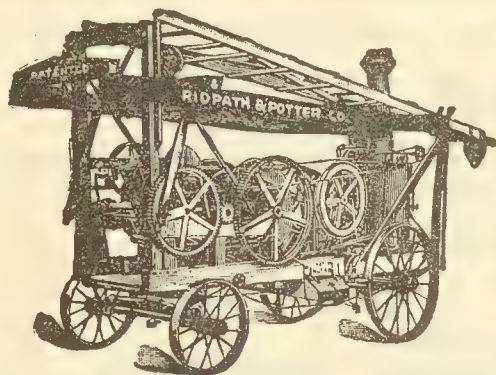
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School (add.), Abington Township, Montgomery County, Pa. Architects, Heacock & Hokanson, 1218 Chestnut street, Philadelphia. Owners, School Board of Abington Township, W. F. Woolley, secretary School Board, Jenkintown, Pa. Stone and brick, 2 stories and basement, 92x55 feet, slate roof, concrete, maple and composition floors, metal lath, dampproofing (plumbing, lighting, heating and ventilating reserved). Contract awarded to Harry Murphy, Willow Grove, Pa.

Garage, 1867 Wynnewood road, Overbrook, Pa., \$800. Architect, P. M. Colen, 3133 West Norris street, Philadelphia. Owner, Walter R. Sparks, on premises. Hollow tile and plaster, 1 story, 16x18 feet, asbestos shingle roof, cement floors, electric lighting. Contract awarded to Rudolph Lukens, Cnywyd, Pa.

Garage and Hardware Store, Shickshinny, Pa. Architect, Thomas Podmore, Bennett Building, Wilkes-Barre, Pa. Owners, J. B. Woodworth's Sons, Shickshinny, Pa. Concrete block, 2 stories and basement, 70x135 feet, slag roof, pine floors, steam heating, electric lighting, hollow tile, 2 elevators. Contract awarded to H. R. Erwine, Berwick, Pa.

Factory Building, Jackson street and North Penn avenue, Wilkes-Barre, Pa., \$12,000. Architect, Henry F. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Penn Manufacturing Co., Wilkes-Barre, Pa. Slow burning construction, 2 stories, 37x111 feet, slag roof, slow burning floors, steam heating, electric lighting, 1 elevator. Contract awarded to Contracting and Building Co-operative Association, Wilkes-Barre, Pa.

Residence, Nanticoke, Pa. Architect, Henry Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, Dr. J. A. Norstedt, Nanticoke, Pa. Hollow tile and stucco, 2½ stories, 28x34 feet, slate roof, steam heating, electric lighting, tile work, hardwood and pine floors. Contract awarded to Lee & Scouton, Hanover, Pa.

Post Office, Hazleton, Pa., \$3,000. Architect, George F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Cranberry Creek Coal Co., Hazleton, Pa. Brick and stucco, 1

story, 40x12 feet, slag roof, pine floors, electric lighting, rolled steel skylights. Contract awarded to Hugh Campbell, Hazleton, Pa.

School (add.), Archbald, Pa., \$10,000. Architect, John J. Howley, Traders' Bank Building, Scranton, Pa. Owners, School Board of Archbald, Archbald, Pa. Frame, 2 stories and basement, 40x55 feet, shingle roof, pine floors (indirect heating, electric lighting and plumbing reserved). Contract awarded to P. J. McAndrews, Archbald, Pa.

School, Dunmore, Pa., \$40,000. Architect, J. J. Howley, Scranton, Pa. Owners, School Board of Dunmore, Ed. P. Moore, secretary, Dunmore, Pa. Frame, 2 stories, 6 rooms and auditorium (steam heating, plumbing, ventilating and electric lighting reserved), slate roof, yellow pine floors. Contract awarded to Peck & Carmody, Dunmore, Pa.

Sales Station, Coatesville, Pa. Architect, private plans. Owners, Atlantic Refining Co.,

School, Waterford Township, Camden Co., N. J., \$3,000. Architect, Arnod H. Moses, 136 South Fourth street, Philadelphia. Owners, School Board of Waterford Township, Camden County, N. J. Brick, 1 story, 24x36 feet, shingle roof, pine floors. Plans about completed. Ready for bids in a few days.

Engine Room and Drying Room, Trenton, N. J., \$6,000. Architect, J. O. Hunt, 114 N. Montgomery street, Trenton, N. J. Owners, De Lion Tire and Rubber Co., East State st., Trenton, N. J. Brick, 2 stories, 30x45 feet, slag roof, reinforced concrete floors, steam heating, electric lighting, rolled steel sash, fire doors, metal lath. Architect taking bids, due September 29th. James H. Morris, Broad

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Garage, Peckville, Pa. Architect, Benj. Crowther, Miller Building, Scranton, Pa. Owner, Geo. W. Roberts, Peckville, Pa. Frame and stucco, 1 story, 50x60 feet, composition roof, cement floors (steam heating and plumbing reserved), electric lighting. Contract awarded to Peck Lumber Co., Peckville, Pa.

NEW JERSEY Construction News

Street Bank Building, Trenton, N. J., is figuring.

Store and Dwelling, South Clinton avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Fred Bennett, Trenton, N. J. Brick, 2 stories, 25x60 feet, slag roof, yellow pine floors, hot water heating, electric lighting. Plans about completed. Owner taking bids.

Residence, Morris Heights, N. J. Architects, Kleeman & Fowler, Second National Bank Building, Trenton, N. J. Owner, H. Young, Trenton, N. J. Stone, 2½ stories, 36x63 feet, slate roof, hot water heating, electric lighting, hardwood floors. Architects taking bids, due September 29th. Fred Scott, J. H. Morris, I. Harper Clayton, Burton & Burton, Charles

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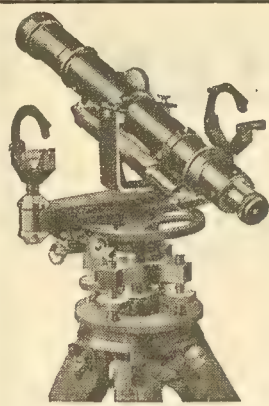
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Miscellaneous Construction News

Randall, Ed. La Rue, Fred Parker, S. W. Mather & Son, Samuel Teitz, and Mr. Wolf, all of Trenton, N. J., are figuring.

Office Building (alt.), Hamilton and Clark streets, Trenton, N. J. Architect, J. P. Pette, Trenton, N. J. Owners, Duncan MacKenzie Sons Co., Trenton, N. J. Brick, 3 stories, 17x60 feet, hardwood floors, electric lighting. Plans about completed. Owners will build.

New Jersey Contracts Awarded

Power House, Plainfield, N. J., \$100,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles-Bement-Pond Co., 111 Broadway, New York City. Reinforced concrete, brick and terra cotta, 1 story, 108x89 feet, cement floors, hollow metal sash and doors, ornamental iron work, waterproofing, dampproofing, wife work. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Residence, River Road, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Willard Slack, care of architects. Stucco, 2 stories, 48x35 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Contract awarded to Walter C. Slack, Trenton, N. J.

Restaurant (alt. and add.), East Hanover street, Trenton, N. J. Architect, Wm. P. Endebrock, American Mechanics' Building, Trenton, N. J. Ewner, Edw. Hayden, on premises. Consists of general interior alterations. Brick, 1 story. Contract awarded to Joseph Dugan, Trenton, N. J.

Club House, Wrightstown, N. J. Architect, Wm. C. Pritchett, 416 Walnut street, Philadelphia. Owners, P. E. Church of Wrightstown, care of Rev. Karl Morgan Block, rector, Wrightstown, N. J. Frame, 2 stories, 40x120 feet, Ready roofing, electric lighting, stove heating. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

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Residence, Newark, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Geo. L. Townsend, 500 Ford Building, Wilmington, Del. Frame, 2½ stories, 30x40 feet, shingle roof, oak or pine floors, electric lighting. Architect taking bids.

Store Fronts (10) (alts.), Tenth and French streets, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, A. L. & F. M. Crawford, 915 Delaware avenue, Wilmington, Del. Brick, 1 story, flush bulks. Architect taking bids, due as soon as possible. Chas. Dougherty, Chas. Bryce and George Rodman, all of Wilmington, Del, are figuring.

Store Building, Dawson, W. Va. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owners, Marshall Store Co., Land Title Building, Philadelphia. Hollow tile and brick, 2 stories, 43x71 feet (lighting reserved), gas heating. Plans in progress. Owners will take bids at Dawson, W. Va.

Liberal Arts Building, Wellesley, Mass. Architects, Day & Klauder, 921 Chestnut street,

Philadelphia. Owners, Wellesley College, Wellesley, Mass. Brick, fireproof, 3 and 4 stories, 60x200 feet, limestone trim, steam heating, electric lighting, cement floors, tile and terrazzo work, rolled steel sash, hollow tile, 1 elevator. Architects will take bids about October 15th.

Factory (add.), Wilmington, Del., \$35,000. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Jessup & Moore Paper Co., Commercial Trust Building, Philadelphia. Brick and concrete, 5 stories, slag roof, concrete floors, rolled steel sash and kalamein doors (plumbing, heating and electric work reserved). Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Store and Office Building, Syracuse, N. Y. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, Fayette Realty Corporation, Syracuse, N. Y. Brick, stone trimmings, 3 stories, 66x62 feet, asphalt roof, oak floors, tile work (plumbing, steam heating and electric work reserved). Contract awarded to Sheridan & Cummings, Syracuse, N. Y.

MARYLAND

Construction News

Garage and Greenhouse, Singerly, Md. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, T. W. Bacchus, Singerly, Md. Frame, 1 story, 40x28 feet and 28x14 feet, slate roof, cement floors, gasoline storage system. Plans in progress.

Brewery (add.), Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, The Standard Brewery Co., 1766 N. Gay street, Baltimore, Md. Brick and concrete, 3 stories, 30x50 feet, slag roof, cement and maple floors (steam heating and electric work reserved), metal lath, rolled steel sash, fire doors. Architect will be ready for revised bids in a few days.

Store Building (alt.), 133 W. Mt. Royal avenue, Baltimore. Architect, Theo. W. Pietsch, American Building, Baltimore, Md. Owners, McGraw Tire Co., 135 W. Mt. Royal avenue, Baltimore, Md. Consists of new front, steam heating, electric lighting, plastering, painting, plumbing. Plans in progress.

Dwellings (10), Sparrows Point, Md. Architect, Edw. L. Palmer, Jr., 519 N. Charles street, Baltimore. Owners, Bethlehem Steel Co., T. W. Stingley, Sparrows Point, Md. Hollow tile and stucco, 3 stories, slate roofs,

hot water heating, combination lighting, plastering and painting, iron work, interior tile work, hardwood floors. Plans in progress.

Police Station, Brooklyn, Md. Architect, H. C. Crisp, Calvert Building, Baltimore, Md. Owners, Department of Public Safety, Brooklyn, Md. Brick, stone trim, 2 stories, 29x50 feet, slag roof, reinforced concrete work, tile work, electric lighting, plumbing, plastering. Owners taking bids, due October 2nd. C. E. Stubbs, Equitable Building; Cogswell-Koether, 406 Park avenue; J. Henry Smith, 1426 Light street; John Colburn, and John H. Geis, both of Brooklyn, Md., are figuring.

Synagogue, Madison avenue and Whitelock street, Baltimore, Md. Architect not selected. Owners, Miskan Israel Congregation, Dr. D. I. Macht, president Building Committee, 3218 Auchentoroly Terrace, Md. Work contemplated.

Residence, Harwood, Md. Architect, Fred E. Beall, 306 St. Paul street, Baltimore, Md. Owners, American Gardens Co., 2 E. Lexington street, Baltimore. Frame and stucco, hot air heating, electric lighting, plumbing, plastering and painting. Plans about completed. Owners are ready for bids.

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Factory, Bayard and Ridgely streets, Baltimore. Consulting engineer, P. O. Keilholtz, Continental Building, Baltimore. Owners, Porcelain Enamel Co., H. Turk, president, Eighth and O'Donnell streets, Baltimore. Plans in progress. Too early for details.

Garage, 3427 Greenmount avenue, Baltimore. Architect, John K. Stack, 12 E. Lexington street, Baltimore. Owner, Joseph C. Smith, 2330 McElderry street, Baltimore. Brick, 1 story, electric lighting, cement floors. Plans in progress.

Post Office (alts.), Fayette and Calvert sts., Baltimore. Architect, private plans. Owners, U. S. Government, Treasury Department, Washington, D. C. Consists of new partitions, steel and marble work, plastering, electric lighting, painting and plumbing. Owners taking bids, due October 1st. C. L. Stockhausen Co., Gay and Water streets; G. Walter Tovell, Eutaw and McCulloh streets; John Waters Building Co., 23 E. Centre street; Cowan Building Co., 106 W. Madison street; Fred Decker & Son, 1209 E. Biddle street; John Hughes & Son, 104 E. Saratoga street; B. F. Bennett Building Co., 123 S. Howard street; West Const. Co., American Building, all of Baltimore, Md., and the Theriault Const. Co., 916 Pennsylvania avenue, Washington, D. C., are figuring.

Building (alts.), Aliceanna and Spring sts., Baltimore, Md. Architect, private plans. Owners, E. J. Codd Co., 700 S. Caroline street, Baltimore. Consists of general interior and exterior alterations, metal work, slag roof. Owners taking bids. Consolidated Eng. Co., Calvert Building, Baltimore, is figuring.

Bungalow, Harmon, Md., \$2,500. Architect, Fred E. Beall, 306 St. Paul street, Baltimore, Md. Owners, American Gardens Co., 2 E. Lexington street, Baltimore. Frame, 1½ stories, 24x43 feet, shingle roof, hot air heating, electric lighting. Plans completed. Owner ready for bids.

Club House, Hollins and Parken streets, Baltimore, Md., \$15,000. Architect, J. F. Nelker, 330 N. Charles street, Baltimore. Owners, Lithuanian Association, John Chester, 663 W. Lombard street, Baltimore. Brick, 2 stories, 66x137 feet, slag roof, steam heating, electric lighting, plastering, painting, plumbing, iron work. Architect is taking bids. Adam Kratz, 118 South Carrollton avenue, Baltimore, is figuring.

Residence, Garrison and Piedmont avenues, Baltimore, Md. Architect, J. F. Nelker, 330 N. Charles street, Baltimore. Owner, Cheo. H. Textor, Professional Building, Baltimore. Stone, brick and frame, 1½ stories, slate roof, plastering, painting, tile work, electric work, hot water heating. Architect taking bids. E. G. Turner, 15 E. Fayette street, Baltimore, Md., is figuring.

Theatre, Hotel, Etc., Admiral, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore, Md. Owners, Camp Meade Amusement and Mercantile Co., Inc., Baltimore, Md. Plans in progress. Too early for details.

Maryland

Contracts Awarded

Horse Stable, Singerly, Md. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, T. W. Bacchus, Singerly, Md. Frame, 1 story and loft, slate roof, pine floors. Contract awarded to A. M. Stricklin, Elkton, Md.

Residence (alts.), 2012 Mt. Royal avenue, Baltimore. Architect, Theo. W. Pietsch, 1210 American Building, Baltimore. Owner, Mrs. E. M. Noel, on premises. Consists of interior alterations, new heating, electric lighting and plumbing. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore.

Residence (alts. and add.), Hilton, Rolling Road, near, Catonsville, Md. Architect, E. L. Palmer, Jr., 513 N. Charles street, Baltimore. Owner, George W. Knapp, 1901 Light street, Baltimore. Consists of interior alterations, mill work, plastering, painting, tile work, electric lighting, hot water heating, vacuum cleaning system, plumbing, addition, brick, stone, stucco and hollow tile, cement work. Contract awarded to Gladfelter & Chambers, Thirty-sixth street and Roland avenue, Baltimore.

Bank Building, 5582-84 N. Gay street, Baltimore. Architects, Sparklin & Childs, Law Building, Baltimore. Owners, Citizens' State Bank of Maryland, Govans, Md. Stucco, 1 story, 30x91 feet, metal lath, skylights, tile work, plumbing, mill work, artificial stone work. Contract awarded to H. M. Reinhart, 517 Valvert street, Baltimore.

Foundry Building (add.), Bayard and Hamburg streets, Baltimore. Architect, private plans. Owners, Gas Appliance Co., on premises. Brick, 1 story, slag roof, cement floor, steel reinforcing beams, plumbing, painting and mill work. Contract awarded to Bennett Building Co., 123 S. Howard street, Baltimore.

Garage, Ogsden and Bradley streets, Baltimore, Md., \$5,000. Architect, private plans. Owner, Mrs. H. Clemens, on premises. Brick and concrete, 1 story, 36x90 feet, slag roof, steam heating, electric lighting, concrete floors. Contract awarded to H. M. Reinhart & Co., 517 Calvert Building, Baltimore, who is taking sub-bids.

Bennett Hall, St. Paul and Twenty-third streets, Baltimore, Md. Architects, Ellicott & Emmart, Union Trust Building, Baltimore. Owners, Goucher College, on premises. Stone and brick, 2 stories and basement, 36x63 feet, tin roof (electric lighting and heating reserved), iron work, plastering, painting. Contract awarded to John Waters Building Co., 23 E. Centre street, Baltimore.

Garage, Hillside Road, Roland Park, Md., \$1,200. Architect, E. L. Palmer, 519 North Charles street, Baltimore. Owner, D. E. Moore, on premises. Brick and stucco, 1 story, electric lighting, slag roof, cement floor. Contract awarded to Roland Park Co., Roland Park, Md.

Schools (2), Riverdale and Mullikin, Md., \$35,000. Architect, Bart Tourison, Land Title Building, Philadelphia. Owners, School Board of Upper Marlboro Township, E. S. Burroughs, president, Court House, Upper Marlboro, Md. Brick, 2 stories, 113x33 feet, asphalt shingle roof, steam heating, electric lighting, maple and cement floors, rolled steel sash, metal ceilings. Contract awarded to Lambert Eckhardt, 1320 North Carlisle street, Philadelphia.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

We know lots of men who have made money without the aid of advertising, but—they haven't made it since 1876.

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.,** Tasker Street Wharf, Delaware River, Philadelphia.

TIMELY TOPICS.

It Isn't Your Town—It's You.

If you want to live in the kind of town
Like the kind of a town you like,
You needn't slip your clothes in a grip
And start for a long, long hike.

You'll only find what you left behind,
For there's nothing that's really new;
It's a knock at yourself when you knock your
town.

It isn't your town—it's you.

Real towns are not made by men afraid
Lest somebody else gets ahead;
When everyone works and nobody shirks,
You can raise a town from the dead.

And if, while you make your personal stake,
Your neighbor will make one, too;
Your town will be what you want to see.
It isn't your town—it's YOU.

—Anonymous.

* * *

According to John H. Sinberg, a large central real estate operator, Philadelphia's business center, which is less than one square mile in extent, will still be the business center of the city a thousand years from now.

Mr. Sinberg spoke to members of the City Business Club at their luncheon in the Hotel Adelphia. Not only does Mr. Sinberg think that Broad and Chestnut streets will be on the map ten centuries from now, but he told his listeners that Market street has a great future in store for it, and that the men who buy Market street properties now will be the millionaires of the future.

Mr. Sinberg also said that in his opinion, the up-stairs store was really in its infancy. He said that as it is now, hundreds of second floors along both Chestnut and Market streets are for sale because property owners refused to make them attractive for prospective tenants. He told of selling a store recently on Market street to a man for \$16,000 a front foot. "This man not so many years ago wouldn't pay \$2,000 a foot for the same property," said the speaker. "He said he was willing to pay the high prices offered because the large department stores would bring his business to him. He said that he could take advantage of the crowds that were attracted to their stores by the millions of dollars' worth of advertising, and that he didn't have to lay out a cent himself for space in the newspapers. There are lots of men like him. They take advantage of the prosperity that the department stores create."

* * *

Recently the Executive Committee of the Merchants' Association of New York passed a resolution which was drafted by the association's committee on city plan as follows:

"Your committee on city plan, by unani-

mous action, recommends that the Merchants' Association of New York advocate the reconstruction of the cupola upon the City Hall according to the plans originally designed by Mr. McComb, the architect of the City Hall, rather than upon any of the subsequent plans."

The history of the City Hall starts in 1803, when the City Council of New York passed a decree which provided for the construction of the City Hall. The building was designed by Mr. McComb, and was completed in 1814. The design of the original cupola was harmonious with the design of the remainder of the building, but no provision was made for setting a clock in the cupola.

The city decided in 1830 that it ought to have a clock on its City Hall. In order to make room for it the cupola was redesigned and rebuilt, its height being increased one story for the clock.

This 1830 cupola was burned in 1858 after a celebration of the laying of the first Atlantic cable, in which fireworks played a prominent part.

Efforts were made at that time to have the original cupola restored, but the demand for a clock prevented its success, and the cupola recently burned was built at that time, clock and all.

SUN-HEATED WATER.

Many homes in Southern California have solar heaters, which furnish the hot water for domestic purposes. The arrangement is simple, and consists of water pipes placed on the roof of a house under a glass top and underneath them some sheets of copper, painted black. Under the rays of the sun the water expands, creating a circulation thereof in the pipes until the water reaches the boiling point, and it will remain hot for more than forty-eight hours after the sun stops shining. It is not often that there is any failure of sunshine. For more than two or three days, and as a consequence there is hot water sufficient for all purposes with rare exceptions throughout the year. The cost of a solar heater is not great, and a handy man can make one for himself.—"Millard's Review" (Shanghai).

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Asbury Terrace and Verbena avenue, \$400. M. A. Roth (O), Camac and Cheltenham avenue, Oak Lane. Fred Storch (C), Oak Lane. Stone, 1 story 16x24 feet, slag roof.

Factory, Woodland avenue and Sixtieth st., \$25,000. J. G. Brill Co. (O), on premises. H. E. Baton (C), 1713 Sansom street. Frame, 1 story, 80x125 feet, slag roof.

Garage, 1867 Wynnewood road, \$775. Walter R. Sparks (O), on premises. Rudolph Lukens (C), Cynwyd, Pa. Hollow tile, 1 story, 17x18 feet, slate roof.

Garage, Westminster avenue and Fifty-first street, \$4,000. Wm. McCormick (O and C), 5342 Addison street. Brick, 1 story, 100x51 feet, slag roof.

Factory, American and York streets, \$58,000. John B. Rex (O), 2410 N. Philip street. S. B. MacDowell & Son (C), 1927 W. Montgomery avenue. Brick, 5 stories, 52x113 feet, slag roof.

Storage House, Paul and Church streets, \$5,800. Keystone Emery Mills (O), Frankford. Wm. Eisenburg (C), 704 Pennsylvania Building. Brick, 1 story, 30x100 feet, slag roof.

Office, Pulaski avenue, south of Pike street, \$300. Harry Heist (O), Eighteenth and Pike streets. Brick, 1 story, 16x28 feet, slag roof.

Forge Shop, Fifty-second and Grays avenue, \$70,000. Taylor-Wharton Co. (O), Widener Building. Crowell Lundoff Little Co. (C), Cleveland, O. Steel frame, 1 story, 120x280 feet, corrugated iron roof and walls, steel sash.

Platforms and Shelters, Chestnut Hill Station, \$28,000. Penna. R. R. (O), Broad Street Station. P. Borthwick (C), 8018 Germantown

avenue. Two concrete platforms, 480x10 feet, two open shelter sheds, 176 feet.

Shop and Garage, Twenty-sixth and Oregon avenue, \$23,000. Atlantic Refining Co. (O and C), 3144 Passyunk avenue. Brick, 1 story, 49x226 feet.

Garage, Twenty-fourth and Vine streets, \$500. Ford & Kendig Co. (O), 1428 Callowhill street. Wm. H. Eddleman & Sons (C), 453 Green Lane, Roxborough. Iron on iron, 1 story, 20x41 feet, hollow tile, slag roof.

Garage, Ridge avenue, south of Wigard avenue, \$2,000. Geo. W. Davis (O), on premises. Wm. H. Eddleman Son (C), 453 Green lane. Stone, 1 story, 22x27 feet, slate roof.

Garage, 617 Rector street, \$2,500. R. E. Hakson (O and C), on premises. Stone, 1 story, 27x57 feet.

Store House, 220 W. Duncannon avenue, \$450. Lewis W. Hopper (O and C), on premises. Brick, 1 story, 16x36 feet, slag roof.

Garage, Delancey and Sixtieth streets, \$3,200. Jeramie Ogden (O), 6035 Pine street. John P. Fallon (C), 449 South Sixtieth street. Brick, 1 story, 18x80 feet, concrete floor, slag roof.

Dwelling, Bells Mill road, east of Wissahickon creek, \$27,000. Mrs. J. F. Keator (O), 218 W. Walnut lane, Germantown. Wm. Eddleman & Sons, 453 Green lane, Roxborough. Stone, brick, hollow tile, 2 stories, 56x47 feet, slate roof.

Shop, 1521 South Marshall street, \$1,600. H. Barkan (O), 514 Dickinson street. Barkan Bros. (C), 926 Snyder avenue. Brick, 2 stories, 18x35 feet, slag roof.

Factory, Eightieth and Bartram avenue, \$35,000. R. L. Wallace & Co. (O), 120 Chest-

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

nut street. H. E. Baton (C), 1713 Samson st. Brick, 1 story, 46x275 feet, slag roof.

Storage, State road, Tacony, \$10,000. Henry Distons Sons (O), on premises. H. E. Baton (C). Brick, 1 story, 37x64 feet, slag roof.

Dwelling, Fifty-ninth and Chestnut streets, \$6,200. Chas. Brooks (O), southeast corner Fifty-ninth and Chestnut streets. N. Litman (C), 2030 South Fifth street. Brick, 2 stories, 18x58 feet, slag roof, hot water heating.

Alterations and Additions

Garage and Machine Shop, Ridge avenue and Leverington avenue, \$5,000. Albert Berry (O), 6067 Ridge avenue. Roxborough Plumbing and Heating Co. (C). Stone, 1 story, 19x250 feet, slag roof; stone, 1 story, 40x80 feet, slag roof.

Garage and Storage, 1002 Reno street, \$1,500. V. Feidler (O), corner Tenth and Reno streets. Max Kane (C), 871 North Sixth street. Brick, 1 story, 18x20 feet, interior alterations.

Store and Dwelling, 5739 Woodland avenue, \$1,950. Philip Holtz (O), on premises. N. Rozensky (C), 520 Dickinson street. Brick, 1 story, 15x7 feet, slag roof; brick, 1 story rear addition, 13x11 feet, slag roof.

Shop, Race and Bonsall streets, \$1,800. W. F. Powell (O), Twenty-third and Race streets. Mitchell Bros (C), 2125 Race street. Brick, 1 story, 47x38 feet.

Apartments, 1822 Chestnut street, \$2,000. M. Mogab (O), 1824 Chestnut street. C. J. Williams (C), 3200 Arizona street. Low Pressure steam heating plant.

Hospital, 1234 North Fifty-fourth street, \$3,000. West Phila. Homo Hospital (O), on premises. Wm. Linker Co. (C), 831 Cherry street. Brick, 1 story, 36x22 feet, slag roof.

Chimney, Eighth and Filbert streets, \$2,400. Lit Bros. (O), Eighth and Market sts. H. R. Henicke, Inc. (C), Stephen Girard Building. Radial brick, 109 feet high.

Chimney, Twenty-first and Clearfield sts., \$6,000. De Long Hook & Eye Co. (O), Broad and Wallace streets. H. R. Hinicke, Inc. (C), Stephen Girard Building. Concrete and brick base, 30 feet high, shaft 122 feet high.

Store and Dwelling, 622 South Fifteenth street, \$465. J. D. Guetter (O), 618 South Fifteenth street. Jas. A. Fitzgerald's Sons (C), 1623 Snyder avenue. Fire repairs.

Storage, Hancock and Montgomery avenue, \$6,000. Jonathan Ring & Son (O). Harry Gill, Jr. (C), 2515 Germantown avenue. Brick, 1 story, 28x44 feet, second story addition, 28x59 feet, slag roof.

School, Watt and Berks streets, \$1,000. Temple College (O), Broad and Berks streets. Ernest Beckershoff (C), 5153 Walnut street. Repair piers in rear of college.

Store, Juniper and Commerce street, \$6,000. M. O'Brien (O), on premises. Smith Hardican Co. (C), 1606 Cherry street. New brick front and second story rear addition, 4x10 feet, and alteration.

Shed, rear 2253 Germantown avenue, \$585. C. Kruse (O), on premises. D. A. Dyche Co. (C), 627 Dauphin street. Frame, roof construction and supports on brick walls, 19x62 feet.

Factory, 1804 E. Venango street, \$1,400. David H. Watts (O), on premises. F. B. Davis (C), 240 North Sixteenth street. New stairway and alterations.

Riveting Tower, Spring Garden and Fifteenth streets, \$60,000. Baldwin Locomotive Works (O), 500 North Broad street. McClintic Marshall Co. (C), Pottstown, Pa. In-

stall two 50-ton electric traveling cranes, alterations.

Store, 1318 Chestnut street, \$2,000. Hanan Shoe Co. (O), on premises. Wm. F. Koelle & Co. (C), Twenty-sixth and Oxford streets. Interior alterations.

Engine Room and Power House, 1332 Washington avenue, \$25,000. Penn Chemical Works (O), on premises. John Bright (C), Otis Building. Brick, 1 story, 48x46 feet, slag roof, steel sash; brick, 1 story, 18x43 feet, slag roof, steel sash.

Apartment, 1705 Spring Garden street, \$900. J. J. Sullivan (O), Land Title Building. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

Hospital, 207 South Twenty-second street, \$3,000. Children's Hospital (O). F. R. Payne Lt. Comd. U. S. N. (C), U. S. Naval Home, Philadelphia, Pa. Interior alterations.

Dwelling and Store, 1156 South Eleventh street, \$300. John D. Tilippi (O), on premises. N. Bartolomer (C), 1241 Christian st. Brick, 3 story rear addition, 13x13 feet, slag roof.

Hotel, Broad and Locust streets, \$8,500. Hotel Walton Co. (O), on premises. H. E. Baton (C), 1713 Samson street. Interior alteration to ninth and tenth floors.

Store and Dwelling, 3147 Kensington avenue, \$500. John McCurdy (O), 3334 North Sixteenth street. W. R. Brown (C), 2145 E. Firth street. Two new flush bulk windows.

Hospital, Twentieth and Susquehanna avenue, \$1,000. Women's Homeopathic Hospital (O), on premises. F. L. Hoover & Sons (C), 1023 Cherry street. Minor interior alterations.

Factory and Boiler House, Memphis and Tioga streets, \$35,800. Treen Box Co. (O), on premises. J. F. Davies (C), 1021 Herbert street. Brick, 2 stories, 51x101 feet, slag roof; brick, 1 story, 10x37 feet, slag roof.

Greenhouse, 1120 E. Washington lane, \$2,500. Zieger & Sons (O), on premises. King Const. Co. (C), N. Towananda, N. Y. Iron pipe construction, 76x96 feet.

Garage, 2018 Haines street, \$500. R. Cavis (O), on premises. P. A. Waltz (C), 6610 N. Seventh street. Alterations.

Dwelling, 4208 Cresson street, \$450. Josie Triciano (O and C), on premises. Brick, 2 stories, 14x14 feet, slag roof.

Rooming House, 139 North Sixteenth street, \$670. Chas. Lester, Jr. (O), 1805 Chestnut street. Frank Lucci (C), 1603 Ellsworth st. Brick, third story rear addition, 13x23 feet, slag roof.

Store and Dwelling, 4993 Thompson street, \$300. Tony Carlo (O), on premises. J. Desantes (C), 4913 Lancaster avenue. New flush bulk.

Factory, Ninth and Oxford streets, \$300. Enderce Food Products Co. (O), on premises. Geo. H. Frank (C), 1113 Cherry street. Alterations.

Garage, 413 North Sixty-fourth street, \$350. Mrs. Maria C. Campanaro (O), on premises. Pasquale Campanaro (C), on premises. Brick, 1 story, 10x32 feet, slag roof.

Office, Pennypack creek and Frankford avenue, \$1,000. Summerdale Dying & Finishing Co. (O), Holmesburg. J. A. Hand (C), 8029 Frankford avenue. Brick, second story addition, 19x30 feet, slate roof.

Warehouse, 124 South Front street, \$500. M. D. Oelberman (O and C), on premises. Alterations.

Dye House, 2109 Rush street, \$1,200. J. J. Diamond (O), on premises. Harry Brocklehurst (C), 512 W. Norris street. Alterations.

Dwelling, Eighty-third and Tinicum avenue, \$5,400. South Philadelphia Land Co. (O), on premises. Wm. F. Koelle Co. (C), Twenty-sixth and Oxford streets. Fire repairs.

Garage, 1226 North Twenty-sixth street, \$8,500. Jas. S. Finnesey (O), Twenty-sixth and Parrish streets. H. C. Dahl (C), 231 S. Eighth street. Stable alterations to garage.

Office and Storage, 206 Chestnut street, \$800. Fidelity Trust Co. (O), 325 Chestnut street. E. H. Keefer (C), 1321 Rodman street. Alterations.

Dwelling, Twelfth and Wyoming avenue, \$400. Adolph Schambacker (O), on premises. G. J. Reich (C), 1124 Loudren street. Alterations.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Sept. 19, 1917. Sealed proposals will be opened in this office at 3 p. m., Oct. 31, 1917, for the construction of the United States post office at Hollidaysburg, Pa. Drawings and specifications may be obtained from the custodian of the site at Hollidaysburg, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 15, 1917.—Sealed proposals will be opened at this office at 3 P. M., November 1, 1917, for the construction of the United States post office at Kenton, Ohio. Drawings and specifications may be obtained from the custodian of the site at Kenton, Ohio, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., September 15, 1917.—Sealed proposals will be opened at this office at 3 p. m., October 29, 1917, for the construction of the United States post office at Waterloo, N. Y. Drawings and specifications may be obtained, after September 22, 1917, from the custodian of the site at Waterloo, N. Y., or at this office, in the discretion of the Supervising Architects. Jas. A. Wetmore, Acting Supervising Architect.

Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Reference Directory for Architects, Builders and Owners

Artesian Wells.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.
John B. Rulon.....1355 Colwyn st., Phila.

Artists' and Architects' Supplies.

Chas. H. Robbins.....125 S. 11th st., Phila.
Warren-Knight Co.....136 N. 12th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Blue Prints.

Chas. H. Robbins.....125 S. 11th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Blue Print Paper.

Chas. H. Robbins.....125 S. 11th st., Phila.

Brick (Face, Etc.).

O. W. Ketcham.....Builders' Exchange, Phila.

Brick Renovating.

Adolph Christensen.....1433 Brown st., Phila.

Builders.

Graham-Campion Co.....Otis Bldg., Phila.
Hogg Construction Co., Inc.,
1634 Sansom st., Phila.
Mitchell Bros.....2125 Race st., Phila.
Pomeroy Const. Co.....1609 Ranstead st., Phila.

Builders' Supplies.

P. H. Fairlamb Co.....115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.

Cement.

P. H. Fairlamb Co.....115 S. 30th st., Phila.
David France Co.,
Tasker st. wharf, Delaware River, Phila.
Lehigh Portland Cement Co..Penna. Bldg., Phila.

Columns (Metal).

Pearce Fireproof Co.....1345 Arch st., Phila.

Composition Flooring.

Philadelphia Mineral Flooring Co.,
5632 Summer st., Phila.

Dampproofing.

The Barrett Co.....New York City and Phila.

Door Hangers.

Grant Pulley and Hardware Co...101 Park ave.,
N. Y., and 339 Land Title Bldg., Phila.

Drawing Materials.

Charles H. Robbins.....125 S. 11th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Electrical Specialties.

Large-Dail Mfg. Co.....606 Cherry st., Phila.

Electrical Construction.

Baird-Osterhout Construction Co.,
1620 Chancellor st., Phila.

Electric Lighting, Power and Appliances.

Philadelphia Electric Co.,
10th and Chestnut sts., Phila.

Elevators.

A. B. See Electric Elevator Co.,
Colonial Trust Bldg., Phila.

Engineers' Supplies.

Charles H. Robbins.....125 S. 11th st., Phila.
Warren-Knight Co.....136 N. 12th st., Phila.
F. Weber & Co.....1125 Chestnut st., Phila.

Fences.

Anchor Post Iron Works,
Real Estate Trust Bldg., Phila.

Fire Doors.

Merchant & Evans Co.,
2035 Washington ave., Phila.

Fireplace Material.

Stover Mfg. & Engine Co.....Freeport, Ill.
B. M. Christman.....119 S. Fourth st., Phila.

Fireproofing.

Consolidated Expanded Metal Co.,
2200 Arch st., Phila.
Pearce Fireproof Co.....1345 Arch st., Phila.
Trussed Concrete Steel Co.,
Commonwealth Bldg., Phila.

Floor Plates.

Alan Wood Iron and Steel Co.,
Widener Bldg., Phila.

Furnaces and Ranges.

Borden Stove Co.....1311-13 Arch st., Phila.
Henry M. Miller.....46-48-50 N. 2d st., Phila.
Richardson and Boynton Co..1342 Arch st., Phila.

Garage (Portable)

Service Equipment Co.....Bourse Bldg., Phila.

Gas and Gas Appliances.

United Gas Improvement Co.,
Broad and Arch sts., Phila.

Granite.

Holmesburg Granite Co.,
Commercial Trust Bldg., Phila.

Heating Contractors.

Bowers Bros. & Co.1629 Ludlow st., Phila.

Heating Boilers.

Borden Stove Co.....1311-1313 Arch st., Phila.
Richardson and Boynton Co..1342 Arch st., Phila.
Keystone Supply & Mfg. Co. 913 N. 9th st., Phila.

Insurance.

Harris J. Latta.....Penna. Bldg., Phila.
Insurance Co. of North America,
3rd and Walnut sts., Phila.

Lumber.

James E. Tague & Co.,
10th and Columbia ave., Phila.

Marble Mosaic.

Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.
Roman Mosaic and Tile Co. 435 Green st., Phila.

Metal Lath.

Consolidated Expanded Metal Co.,
2200 Arch st., Phila.
Pearce Fireproof Co.....1345 Arch st., Phila.
Trussed Concrete Steel Co.,
Commonwealth Bldg., Phila.

Meters.

Philadelphia Meter Co.,
Real Estate Trust Bldg., Phila.

Mill Supplies.

The Fairbanks Co.....7th and Arch sts., Phila.
Service Equipment Co.....Bourse Bldg., Phila.

Paints and Varnishes.

Felton, Sibley & Co.....136 N. 4th st., Phila.

Pipe Fittings and Valves.

The Fairbanks Co.....7th and Arch sts., Phila.

Plumbing Fixtures.

Fleck Bros. Co.....44 N. 5th st., Phila.
James A. Vogel Co.....Wilmington, Del.
Keystone Supply & Mfg. Co.,913 N. 9th st., Phila.

Preservatives (Wood and Concrete).

The Barrett Co.....New York City and Phila.
F. E. Sagendorph....24th and Walnut sts., Phila.

Ranges.

Borden Stove Co.....1311-13 Arch st., Phila.
Henry M. Miller.....46-48-50 N. 2d st., Phila.
Richardson & Boynton Co..1342 Arch st., Phila.

Refrigerators.

Borden Stove Co.....1311-13 Arch st., Phila.
Henry M. Miller.....46-48-50 N. 2d st., Phila.

Reinforcing Bars.

Trussed Concrete Steel Co.,
Commonwealth Bldg., Phila.

Roofing.

The Barrett Co.....New York City and Phila.

Roofing Slate.

C. F. Shellenberger...Builders' Exchange, Phila.

Roofing Tile.

O. W. Ketcham.....Builders' Exchange, Phila.
C. F. Shellenberger...Builders' Exchange, Phila.

Sash Pulleys.

Grant Pulley and Hardware Co...101 Park ave.,
N. Y., and 339 Land Title Bldg., Phila.

Scales.

The Fairbanks Co.....7th and Arch sts., Phila.

Sewer Pipe and Flue Linings.

C. F. Shellenberger...Builders' Exchange, Phila.

Sewage Disposal.

Harrison, Mertz & Emlen, Inc.,
Commercial Trust Bldg., Phila.

Soundings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.
John B. Rulon.....1355 Colwyn st., Phila.

Sprinklers.

Merchant & Evans Co.,
2035 Washington ave., Phila.

Structural Engineer.

Harry C. Eisenbise Co.....Penna. Bldg., Phila.

Surety Bonds.

Harris J. Latta.....Penna. Bldg., Phila.

Terra Cotta (Architectural).

O. W. Ketcham.....Builders' Exchange, Phila.

Test Borings.

Artesian Well Drilling Co.,
Real Estate Trust Bldg., Phila.
Ridpath & Potter Co.....Bourse Bldg., Phila.
John B. Rulon.....1355 Colwyn st., Phila.

Tile and Terrazza Work.

Belfi Bros. & Co.....1923 Market st., Phila.
Italian Marble Mosaic Co...433 Spruce st., Phila.
Roman Mosaic and Tile Co..435 Green st., Phila.

Ventilators.

Merchant & Evans Co.,
2035 Washington ave., Phila.

Wall Board.

Oil Board.

James E. Tague & Co.,
10th and Columbia ave., Phila.
Water Paint.

Wm. B. Southern,
N. W. Cor. 12th and Spruce sts., Phila.

Waterproofing.

The Barrett Co.....New York City and Phila.

Water Supply.

Harrison, Mertz & Emlen, Inc.,
Commercial Trust Bldg., Phila.

Weather Strip (Metal).

Diamond Flexible Metal Weather Strip Co.,
Geo. R. C. Johnston.....Drexel Bldg., Phila.
S. B. MacDowell & Son,
1927 Montgomery ave., Phila.

Window Screens.

S. B. MacDowell & Son,
1927 Montgomery ave., Phila.

Wire Work.

Audubon Wire Cloth Co., Inc....Audubon, N. J.

EXPERIENCE

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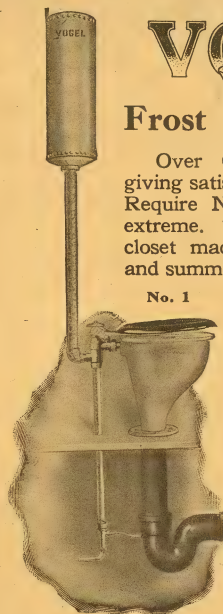
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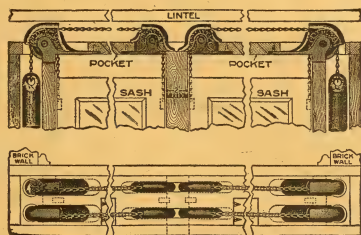
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October 3, 1917

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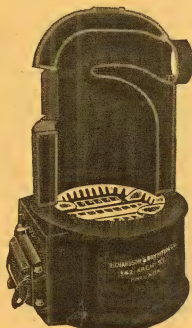


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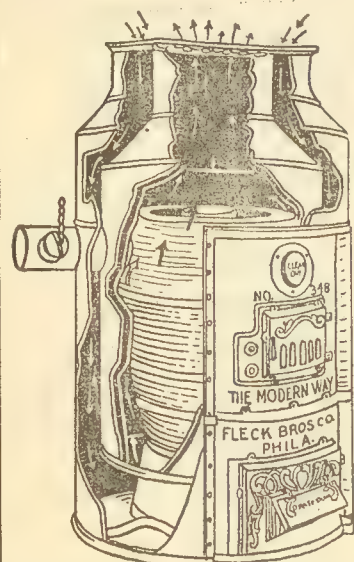
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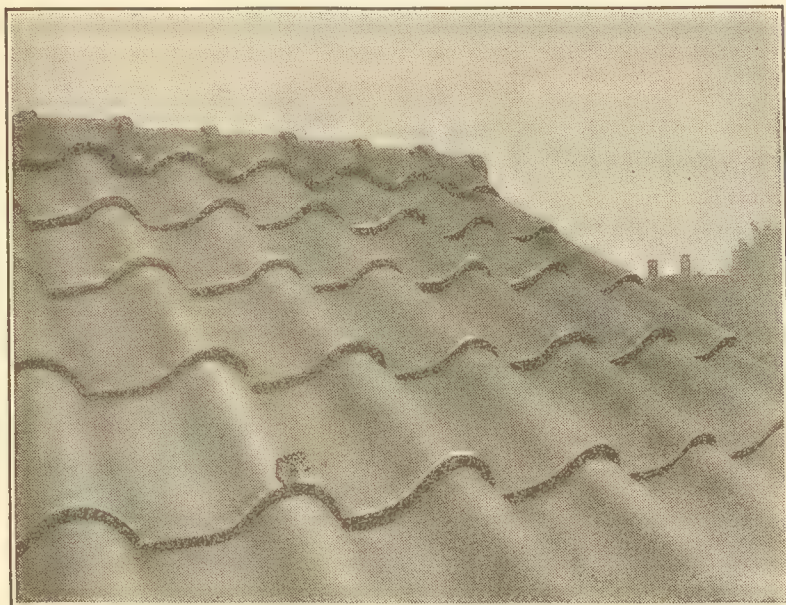
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Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII

Number 40

PHILADELPHIA

October 3, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
and Builders' Guide
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As The Editor Sees It



WE had something to say under this head last issue about the growing demand that exists for homes and the apparent unwillingness of the operative builder to meet this demand because of the high cost of labor and materials. Just how acute the situation has become has been brought rather sharply to our attention within the past few days. In New York City on September 20 a conference met at the suggestion of the Building Material Exchange of that city to discover whether there is any fixed or valid reason why building construction should not go on much as usual during the period of the war. Marcus M. Marks, President of the Borough of Manhattan, presided at the meeting, which was held in the Municipal Building. President Mark's address, while applicable directly to the Borough of Manhattan, is so largely typical of conditions here and in other large centers of population that I am moved to quote it at some length. Said President Marks:

"War conditions come first in attacking business problems at this time. Everything that may interfere with whole-hearted concentration in our efforts to push the war to a successful finish, must give way. Still, we must not forget that stagnation in any legitimate industry will tend to undermine the general prosperity of our country; upon this continued prosperity we depend for our ability to finance our own and the allied forces.

"To manufacture beyond a healthy demand for output is always dangerous; but a condition where manufacturing practically ceases in spite of an overwhelming demand, requires investigation and action. This conference has been called, on the suggestion of the Building Materials Exchange, for interchange of views on the present building situation. Many builders and capitalists have suspended constructive operations largely on account of high prices of materials. The question arises: Is the present level of prices likely to be maintained for some years to come? If so, is it not folly to allow the building industry and all the collateral industries depending upon it, to stagnate when the demand for homes, particularly in Manhattan, so far exceeds the supply? Should population be permitted to seek homes elsewhere because Manhattan builders and their backers are waiting for a drop in prices of material which may not come?"

* * *

THESE are fair subjects for discussion. With the interests of New York deep at heart, I await the developments of this conference with interest, yes, grave concern. The records of our Building Bureau show the following figures regarding building construction:

1914.

Dwellings	\$1,682,000
Tenements	18,916,000
Hotels	975,000
Stores, Lofts, etc.	9,284,000

Office Buildings	7,190,000
Manufactories & Workshops	2,618,450
Schools	298,000
Churches	400,000
Public Buildings—Municipal	572,000
Public Buildings, Amusements, etc.	1,739,000
Hospitals	750,000
Stables and Garages	972,050
Other Structures	74,065

Totals\$45,471,165
1915.

Dwellings	\$792,500
Tenements	24,960,500
Hotels	2,030,000
Stores, Lofts, etc.	13,949,500
Office Buildings	5,535,000
Manufactories & Workshops	1,957,500
Schools	1,045,000
Churches	872,500
Public Buildings—Municipal	10,454,000
Public Buildings, Amusements, etc.	1,531,250
Hospitals	595,000
Stables & Garages	872,705
Other Structures	57,414

Totals\$64,652,869
1916.

Dwellings	\$3,065,700
Tenements	37,841,000
Hotels	26,717,000
Stores, Lofts, etc.	18,030,650
Office Buildings	6,167,600
Schools	795,000
Churches	858,500
Public Buildings—Municipal	969,000

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Public Buildings, Amusements, etc.	3,639,500
Hospitals	1,000,000
Stables & Garages	2,910,100
Other Structures	44,095

Totals\$114,690,145
1917.

Dwellings	\$420,000
Tenements	2,561,000
Hotels	2,350,000
Stores, Lofts, etc.	1,133,000
Office Buildings	7,792,500
Manufactures & Workshops	1,598,000
Schools	88,000
Public Buildings—Municipal	890,800
Public Buildings, Amusements, etc.	2,221,525
Hospitals	940,000
Stables and Garages	2,630,600
Other Structures	242,500

Totals\$23,852,925

* * *

VERY large items of 1916 and 1917 are high buildings and stables and garages planned to anticipate the restrictions of the new zoning laws.

"It may be noted that of all plans filed during the current year, less than \$500,000 worth of the work has been completed to date.

"About 40 per cent. of the work on new buildings now in course of construction is covered by plans filed in 1916.

"Estimated cost of new building plans filed during first 8 months of 1916 amounted to \$100,987,645.

"Estimated cost of new building plans filed during first 8 months of 1915 amounted to \$50,996,300.

"Estimated cost of new building plans filed during first 8 months of 1914 amounted to \$34,491,240.

...*"What will happen to business in general, if building is not resumed?"*

"Our business structure is like a row of bricks; if one falls, the whole row is in danger of going down. I trust that we shall develop facts to-day which will warrant a new healthy optimism encouraging resumption of such building operations as are needed to supply legitimate demands of our city. We should not encourage the slogan, "Business as usual." Government business is paramount. *But for the future welfare of labor, and home-seekers, as well as other important interests, we should consider seriously present building conditions.* L

* * *

THE September number of the *Journal of the American Institute of Architects* presents a series of fine plates showing upon what an elaborate scale the British Government has gone into the work of providing necessary housing accommodations for workmen at Woolwich. Commenting editor-

ially upon these plates and the very interesting and informative paper accompanying them, the *Journal* remarks:

"The significant thing about the vast governmental housing undertakings of Great Britain, of which Well Hall, one of the most important, is illustrated in this number of the *Journal of the American Institute of Architects*, does not lie in either the technique of the operation or the result. The significance lies in the fact that War has given a prominence to housing such as Peace could not give. War has made us see that the philosophy of housing—call it the science if you will—as applied on so vast a scale by Germany, was really inspired by her profound analysis of what would be necessary first to prepare for war, and second to conduct a war. *Germany foresaw what England had to learn—that a modern army is dependent upon the industries at home; that War demands more from industry than does Peace; that the meeting of those demands which mean national life or death depends upon obtaining the utmost in skill and energy from the workers who supply the soldiers; that workmen cannot put forth those qualities except under living conditions which constantly renew and thus maintain the highest vitality.* Peace has enunciated this economic principle with a voice which has been drowned to a whisper. War shrieks the message to the nation and makes it heard above all other cries, and England has heard so well that in addition to the extraordinary plans which have already been executed—under financial and industrial pressure which only add to their extraordinary character—she is looking far ahead into the future and making ready to provide new living conditions to replace the old. She is now far-seeing enough to understand that the essential principle of her national existence cannot be left to the speculative builder.

* * *

INDEPENDENTLY and in spite of the emergency housing which already has been undertaken by industrial corporations and by private capital, the industrial housing situation in the United States is at this moment a vital and yet scarcely recognized factor in our war-time industrial production, upon which all other things depend. *A most casual examination of the facts will bring one face to face with the knowledge that unless the Government will cope with the problem of housing workmen as it is meeting the problems of housing machinery, we shall shortly be at an impasse.* It is useless to encourage industry to expand while leaving the housing of workmen to chance and caprice.

"At Bridgeport, Connecticut, for example, a new factory for war purposes

is being rushed to completion. It will employ a thousand operatives. *There is at present, as we are informed, not a single house available for rent in Bridgeport, nor is there any capital available for building.* The Government is, we are told, furnishing money for the new building to contain the machinery while the housing problem is totally ignored! Could anything be more shortsighted? This is one situation in many, and fresh ones are developing with every step which the Government is taking toward *speeding up production.*

* * *

OUR ability to build ships is found to be based upon first housing the workmen. *In almost every industrial center, large or small, the cry is for houses and more houses.* The private capital usually available for operations of this kind is being diverted to other uses where the gains promise to be large. The very war-time hazard attending upon many of these demands for more houses deters capital, while the present cost of building also adds an element of uncertainty as to the future of the investment. It is by no means certain that rentals based upon present building costs will continue to be payable by workmen, and there are doubts, in many cases, as to the permanent nature of the industries for which houses are needed.

* * *

THE situation has developed with amazing rapidity and will soon reach a climax that cannot be ignored. It seems that it might have been possible to foresee this by making a simple study of the human element involved, but the problem is now here and has assumed menacing proportions. Upon the speed and thoroughness with which it is met will depend our ability to supply the equipment without which we cannot successfully perform our share in France. There seems to be no other agency capable of quickly assuming the direction and control of the problem than that of the National Government.

"This was the step which England found it necessary to take, and in that country the need was met with the same degree of energy and ability which has characterized the remarkable industrial transformation which the war has forced her to undertake. More than that, she was wise enough not to try to meet the situation by temporary makeshifts, but by building permanent houses which are to remain as a national asset, or else by building, as she did in some localities, other buildings such as hospitals, which later easily can be converted into substantial modern houses at low rentals. She met the problem squarely and with economic astuteness.

FOR the United States Government to extend financial aid to home building, in whichever one of the forms that have been put into operation in every other civilized country, would be more of a jump than a step. We are inexperienced in dealing with the question, whereas European countries without exception have all extended financial aid to the building of homes for workmen. But it would be as absurd to argue over the principle involved, at this moment, as for an engineer to hesitate at cutting down an apple orchard in order to build a bridge to save a division of troops. War is relentless. It asks plain questions and insists on getting the answer. The answer to this war is industrial organization. The answer to that is homes for workmen to live in. *The answer to that is to build them now and cut off the delay and waste involved by waiting for somebody else to do it.* When we are spending at the rate of \$50,000,000 a day, delays cost money!

* * *

AS to the method by which the Government should extend aid it seems evident from the facts now available that private capital only needs to be supplemented to the extent of relieving it of the risk consequent upon the uncertain nature of those undertakings where permanency is involved. To meet this same condition in the expansion of industrial plants and not to meet it by absolutely assuring the necessary house building is to refuse to recognize an elementary business principle. The methods of extending governmental aid by the principal countries of the world are set forth in the volume published by the Department of Labor in 1915 and are familiar to those who have studied the housing question in European countries.

"The Government is already at work in a preliminary consideration of plans for coping with the housing shortage at some of the vital points, and it seems not unlikely that the building of Government-owned workmen's houses may begin in the near future. On account of the shortage of capital, several large industrial housing schemes which had been started have now come to a stop.

* * *

IN Washington, the congestion has now so hampered the administrative function of the Government that Congressman Fitzgerald, of New York, has advocated the erection of a three-story temporary office building, of frame construction, with a ground-area of 350,000 square feet, and designed to provide space for 10,000 employees. It is planned to erect this building on the Mall, not far from the Capitol, and while the site selected seems less desirable than

others which might have been found, this plan would undoubtedly prevent the further mulcting by owners of buildings, who are now collecting no less than a million dollars yearly from the Government. Yet one hesitates to think of what might happen in the event of a fire in such a structure. Temporary buildings are undoubtedly the answer to the immediate needs, but they must be made safe to life, at no matter what expense."

* * *

THOSE builders, speculators and others, who have been taking a gloomy view of the general outlook must perceive that while constructive activity has not naturally experienced a more or less severe set-back as the result of conditions traceable to and growing out of our immersion in the world conflict this situation is not likely to be

of more than temporary duration and needs only the restoration of trade confidence to get back to sound commercial levels.

With large governmental problems of housing and equipment to be met, with a growing demand for industrial buildings and a ready market waiting operative dwellings the need of the hour is for men who are willing to face the slight, almost negligible element of risk to resume their normal place in affairs. As pointed out last week there is little or no prospect of any material recession in building costs. Materials are up to remain up for years to come. Labor conditions are not likely to undergo any marked improvement. The demand that exists is one prepared to meet the new scale of costs. Optimism and nerve are the passports to success.

EDITORIAL NOTES

Evidence multiplies that the stagnation of activity in the field of building construction, that has now maintained for a protracted period, is rapidly drawing to a conclusion. The tone of the building industry is better, with structural interests generally beginning to feel the force of improved conditions by a greater volume of sales and more frequent inquiries for future requirements. There has been a group of individuals prominent in the building fraternity that have held for some months that the period of depression and structural inactivity experienced this year was but a temporary affair that, while decidedly upsetting to the stability of the industry, was a matter that undoubtedly would result in the ultimate improvement of building conditions throughout the United States. From this period of doubt and stress the structural trades as a unit will emerge with a more satisfactory understanding and a fuller appreciation of the meaning of co-operation between its component parts. The atmosphere will be clarified and the future progress of the building interests be more fully assured.

* * *

James P. Beck died last month at the Presbyterian Hospital, Chicago. At the time of his death he was general manager of the Portland Cement Association, with headquarters at 111 West Washington street, Chicago. Mr. Beck was born January 27, 1886, at Odell, Ill. He was graduated from the University of Illinois in 1907 with the degree of A. B. in L. & A. On his graduation he entered the employ of the Universal Portland Cement Co. During the fall of 1915, Mr. Beck was chosen to formulate plans for broadening the scope of work of the Association of American Portland Cement Manufacturers, the headquarters of which were then in Philadelphia. After several months' work, Mr. Beck submitted at the annual meeting of the Association in De-

cember, 1915, a very comprehensive plan which was adopted essentially in its entirety.

* * *

One of the most forcible reasons why the building situation can be said to be better to-day than it has been for a long time is found in the volume of purely speculative work that is daily coming to light. During recent months New York City, as well as a number of other important centers of community interest, has suffered from the lack of speculative and investment construction. This condition created a demand for accommodations for both housing and industrial purposes that was considerably in excess of the supply, and difficulty was experienced in providing for those in the market for renting space. In the last week there have been a number of definite instances in which prospective builders of speculative operations have matured their plans for an early commencement of activity. The fact that some pioneers in this field have confidence enough in the future for buildings of this type will naturally influence others to follow. The result will be a stronger building situation generally, with increasing optimism in all lines of endeavor that are connected with the structural interests.

* * *

Mr. Sullivan W. Jones, representative of the American Institute on the National Conference Committee to consider the Quantity System as a means of checking the economic waste in the present method of competitive bidding, reports that the committee will hold its first meeting at the Octagon about the middle of October, and that of the eighteen associations invited to send representatives, ten have agreed to do so and three others have promised to take the matter up at meetings in the near future.

Although the prospects of a renewed building movement are better to-day than they have been for weeks there is still much to be accomplished before the best results are within the range of possibility. The unsatisfactory condition of the labor market is an important factor that will require considerable adjustment. The dealers in structural materials and supplies must assist in a stabilization of the commodity markets with prices returned to a figure that more nearly approximates the normal. The institutions and concerns that are influential in the financing of important structural projects must revise their attitude to meet the existing circumstances. The building contractors and their dependent subcontractors must be brought to a realization that they will occupy a prominent part in the predicted movement and that in a large manner their efforts will be a factor in improving the conditions as they exist at present. Only by the most complete co-operation throughout all branches of industrial and commercial activity can the best interests of the building industry be served. By this means an industry that has suffered to a degree through the national crisis, that was barely approached in other lines, can be brought back to its former eminence and influence.

* * *

In general the situation in the cement industry is satisfactory. The railroad freight congestion has been relieved and difficulty from this source has been practically eliminated. Shipments on contract are now coming through in reasonable time and a much better feeling is apparent. Cement prices are holding firmly to their established level and there are no signs of a fluctuation. One of the best indications of the favorable position of the cement industry is the recent statement of a prominent producer that for the first fifteen days of September, 1917, the shipments of the concern were 44 per cent. in excess of those for the same period last year.

* * *

A full realization of the existing dull condition of the structural steel industry is possible through the recent announcement made by the Bridge Builders' and Structural Society, that only thirty-eight per cent. of the total capacity of the bridge and structural shops of the country was contracted for during the month of August. While there have been some signs of latent activity at distant localities, the Metropolitan district shows no indication of a building movement, including other than that type of construction work that requires none or very little structural steel. The interests that have in contemplation the erection of steel frame structures in New York and vicinity are holding them in abeyance for the expected Presidential announcement in regard to the fixing of steel prices and the control of output. It is generally conceded that only by drastic action from Federal sources can the existing unsatisfactory situation be relieved, and until this action is taken or some definite assurance made to the consuming public, there is little prospect of a re-

sumption of building activity on a large scale. During the past week the only bookings of consequence were for Government work or other construction that was the natural outgrowth of Federal military activities.

* * *

R. F. Williams, formerly connected with the Manning, Maxwell & Moore, Incorporated, Pittsburgh office, has become connected with the sales department of the Sherritt & Stoer Co., of Philadelphia, machine stools.

* * *

Warren Webster & Co., Camden, N. J., announce the appointment of S. E. Vance as Washington district manager, with offices at 301 Southern Building, Fifteenth and H streets, ... W., Washington, D. C.

* * *

On September 12th a committee from the Philadelphia Master Builders' Exchange, composed of Joseph M. Steele, chairman, James W. Davie, William J. Doyle and A. Raymond Raff, secured an interview with Mayor Smith and Director Datesman with the view of having the ordinance prohibiting the occupation of streets with building materials in the central section of the city, bounded by Spring Garden street, South street, Delaware and Schuylkill Rivers, and on Broad street from Lehigh avenue to Washington avenue, modified sufficiently to not interfere so seriously with the conduct of the building business within the proscribed area.

Mr. Steele reports having had a very pleasant hour with the Mayor and his Director, and the Mayor promises to not strictly enforce the ordinance where the builder shows a disposition to keep his materials off the streets as much as he possibly can.

No permits will be issued for the use of streets, but building materials entering into the construction of the building may be stored on the streets during the day time, but each evening the streets must be cleaned and the material so stored piled within the building line. Old materials must be removed from the site at once.

It is the hope of the Legislation Committee that the builders can operate under the above-mentioned provisions temporarily at least, as they expect to secure further modifications later.

* * *

Federal Radiator Co., New Castle, Pa., it is reported, has received an order for 150 hot water radiators for use in the Government's army cantonment building.

CONVENTIONS, MEETINGS AND EXPOSITIONS OF TRADE INTEREST UNDERLINED FOR OCTOBER, 1917.

OCTOBER 7-11—NATIONAL PAINT, OIL AND VARNISH ASSOCIATION, convention, Congress Hotel, Chicago, Ill. George V. Horgan, secretary, 100 William street, Manhattan.

OCTOBER 15-17—NATIONAL HOUSING ASSOCIATION, annual meeting, Chicago, Ill.

Lawrence Veiller, secretary, 105 East Twenty-second street, Manhattan.

OCTOBER 17-19—NATIONAL HARDWARE ASSOCIATION and American Hardware Manufacturers' Association, joint convention, Atlantic City, N. J. Headquarters at Marlborough-Blenheim.

OCTOBER 26-27—AMERICAN IRON AND STEEL INSTITUTE, annual meeting, Cincinnati, O. Headquarters Hotel Sinton.

LARGE COMPANY FORMED.

Will Do National and Foreign Engineering Work of Every Kind.

About two weeks ago the Hedden, Pearson, Starrett Corporation was incorporated under the laws of the State of Delaware for the purpose of acting as consulting engineers, contractors for engineering work, contractors for operation, purchasing agents and representatives of foreign corporations in the following industries: Steam and electric railways, tramways, highways, bridges, canals, hydro-electric power plants, steam power plants, submarine dredging and rock work, shipbuilding, mining, docks and waterfront improvements, building construction, chemical works, electrical equipments, water works, street lighting, telephone systems, etc.

The following is a selected list of engineering work and building construction, with which the personnel of the corporation has been identified, as principals:

Metropolitan Life Insurance Company's building, Madison Square, Manhattan; Sears, Roebuck & Company's building, Chicago, Illinois; Electrical Development and Power House, Toronto, Canada; Rio de Janeiro Tramways Light and Power plant, Rio de Janeiro, Brazil; Hotel St. Regis, Fifth avenue, New York; Hotel Taft, New Haven, Conn.; San Antonio Land and Irrigation Company's plant, San Antonio, Texas; Mexico Northwestern Railroad, El Paso, Texas; Metropolitan Street Railway, New York; Prudential Life Insurance Company's building, Newark, N. J.; Union Railroad station, Columbus, Ohio; Oakland National Bank, Oakland, Cal.; Barcelona Traction and Light and Power plant, Barcelona, Spain; West End street railway system, Boston, Mass.; Dominion Coal Company's plant, Nova Scotia, Canada; Union Railroad station, Washington, D. C.; Wanamaker buildings, New York and Philadelphia, Pa.; Sao Paulo Tramway and Light and Power plant, Sao Paulo, Brazil; New England Gas and Coke plant, Everett, Mass.; Union Bank of Canada, Winnipeg, Canada, and Merchants Refrigerator Company's plant, Jersey City, N. J.

William H. Burr, D. Sc., is the director and has been tendered the presidency of the company. The vice-presidents are: Louis O. Hedden, Ward E. Pearson, Theodore Starrett, Edward H. Beckert and John V. Clermont. Harry J. Kane is the treasurer, and V. A. Van Valkenburg, secretary.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage and Store (add.), 6200 Reedland street, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner, A. Gelman, on premises. Brick, 1 story, 18x18 feet, slag roof, hot air heating, electric lighting, pine and cement floors, plastering, flush bulks. Plans completed. Owner ready for bids.

Garage, 519 to 525 Moore street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Jacob Pitman, on premises. Stone, brick and steel, 1 story, 50x554 feet, slag roof, steam heating, electric lighting, cement floor, metal lath, metal ceilings, hollow metal skylights. Plans completed. Owners ready for bids.

Buildings (7), Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, care of F. R. Harris, Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, galvanizing plant, 1 story, 61x122 feet; oxyacetylene generating plant, 1 story, 64x64 feet; engine house, 1 story, 69x140 feet; locker house No. 1, 2 stories, 57x109 feet; locker house No. 2, 1 story, 57x79 feet; two ramp toilets, 1 story, 15x67 feet, ready and slag roofs, cement floors, steam heating, electric lighting, rolled steel sash, fire doors, ornamental iron work, metal lath, safety treads, roof ventilators, wire work (plumbing reserved). Owners taking bids, due October 8th. McCloskey & Bahls, 1620 Thompson st., Philadelphia, additional bidders.

Residences (100), Twenty-seventh and Passunk avenue, Philadelphia. Architect, private plans. Owner, Allan Cox, 5834 Cedarhurst street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, hot water heating, electric lighting. Plans in progress.

Office, Land Title Building, Philadelphia. Architects, McIlvane & Roberts, Otis Building, Philadelphia. Owners, Prichard, Saul, Evans & Bayard, on premises. Reinforced concrete, pine floors, electric lighting, tile work, hollow tile, metal lath (electric fixtures reserved). Architects have received bids.

Garage and Store (add.), Wayne avenue and Seymour street, Germantown. Architects, Savery & Sheetz, Stephen Girard Building, Philadelphia. Owner, Albert Smith, on premises. Brick, 1 story, 42x20 feet, slag roof, hot water heating, electric lighting, cement floors, wire work, ornamental iron work. Architects have received bids.

Residences (4), Fourth and Lindley avenue,

\$11,600. Architect, private plans. Owner, Wm. J. Baltz, 709 Butler street, Philadelphia. Brick, 2 stories, 15x28 feet, slag roof, hot water heating, hardwood floors, combination lighting. Work about to be started.

Residences (16), Ruscomb and Hutchinson streets, \$39,000. Architect, private plans. Owner, W. Fischer, 3621 North Fifth street, Philadelphia. Brick and stone, 2 stories, 15x35 feet, slag roof, hot water heating, combination lighting, hardwood floors. Owner taking sub-bids on all lines.

Lime House, Tioga and C streets, Philadelphia. Architect, W. E. S. Dyer, Lan Title Building, Philadelphia. Owners, Baxter, Kelly & Faust, Tioga and C streets, Philadelphia. Brick and reinforced concrete, 1 story, 22x30 feet, slag roof, cement floors, waterproofing. Architect has received bids.

Residence (alt. and add.), 1335 East Montgomery avenue, Philadelphia. Architect, Albert F. Shenck, Real Estate Trust Building, Philadelphia. Owner's name withheld. Side porch addition, brick and frame, tin roof, hardwood floors, hot water heating, electric lighting, tile and marble work, interior alterations. Architect taking bids, due as soon as possible. Philip Haibach Cont. Co., Twenty-sixth and Thompson streets, is figuring.

Garage (alt.), 2032 Chancellor street, Philadelphia. Architect, Wm. C. Haddock, superintendent of Const. and Mech. Dept., Thirteenth and Market streets, Philadelphia. Owner, John Wanamaker, Thirteenth and Market streets, Philadelphia. Brick and fireproofing, 3 stories, cement floors, hollow tile, tile work. Owner has received bids.

Mill, Kiln Building and Boiler House, Fifty-seventh, Fifty-eighth and Gray's avenue. Architect, private plans. Owners, Unit Const. Co., Thirty-first and Chestnut streets, Philadelphia. Reinforced concrete and brick, 3 stories, 80x240 feet; 1 story, 60x60 feet, and 1 story, 26x36 feet, slag roof, concrete, maple and pine floors, steam heating, rolled steel sash and skylights, fire doors, elevators, roof ventilators. Owners have received bids.

Stores (int. alt.), 30-32 and 34 South Sixth street, Philadelphia. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owners, L. H. & J. H. Warren, Lafayette Building, Philadelphia. Brick, light iron work, plumbing and sheet metal work, pine floors, fire doors (heating, electric work and elevator reserved). Architect has received bids.

Store and Residence (int. alt.), 123 South Thirteenth street, Philadelphia. Architects, G. A. & H. Boehm, 7 West Forty-second street, New York City. Owner, P. Centemeri, 400 Fifth avenue, New York City. Consists of general interior alterations, stucco finish, cement and parquet floors, hollow tile, electric lighting, marble work (heating reserved). Architects taking bids, due as soon as possible. Smith-Hardican Co., 1606 Cherry street, Philadelphia, is figuring.

Elevator Shaft, Twelfth and Locust streets, Philadelphia. Architect, Robert Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owners, S. S. White Dental Manufacturing Co., Twelfth and Chestnut streets. Brick, 8 stories, 8x6 feet, metal lath, hollow metal skylights, fire doors, roof ventilators (elevators reserved). Architect taking bids, due as soon as possible. Wm. R. Dougherty, 1610 Sansom street; Turner Concrete Steel Co., 1713 Sansom street, and Drehmann Paving Co., 2622 Parrish street, are figuring.

Store and Residence (alt. and add.), Kensington and Allegheny avenues. Architect, private plans. Owner, Benj. E. Sattler, 1101 Lindley avenue, Philadelphia. Brick, 1 story, tin roof, tile and marble work, yellow pine floors, hollow metal skylights, flush bulks, metal ceilings. Owner taking sub-bids on all lines.

Buildings (3), Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Col. Geo. Montgomery, Frankford Arsenal, Philadelphia. Reinforced concrete, stone and brick, 1 story, 70x29 feet, 2½ stories, 123x87 feet; 3 stories, 122x52 feet and 38x25 feet, slate and slag roofs, composition, maple and cement floors, hollow tile, metal lath, rolled steel sash, hollow metal skylights, fire and kalamein doors, fire escapes, roof ventilators, metal window guards, waterproofing, ornamental iron work, wire work. Low bidder, Wm. Steele & Sons, 34 South Fifteenth street, \$300,000.

Recreation Pier, No. 57, Penn Treaty Park, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, George S. Webster, Director, 550 Bourse Building, Philadelphia. Reinforced concrete, steel, timber and wood pilings, double deck, 70x295 feet, bulk head, A. P. M. and concrete roof, asphalt paving, cement and pine floors, rolled steel sash, kalamein and steel rolling doors, ornamental iron work, metal lath, safety treads, water-

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BOWERS BROS. & CO.

1629 Ludlow Street
Philadelphia, Pa.

proofing, wire work. Low bidders: James Stewart Co., Inc., 30 Church street, New York City, \$370,000, subject to change in price of steel, and Snaare & Triest, Philadelphia, \$396,550.

Saw Mill, Kiln and Lumber Shed, Venango and Pennsylvania Railroad, Philadelphia. Architects, Bollinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, A. Schoenhut Co., Adams and Sopovia streets, Philadelphia. Brick, reinforced concrete and frame. Architects taking bids, due October 9th. Robert E. Lamb Co., 1342 Arch street; George Kessler Cont. Co., Drexel Building; Barclay White Co., 1713 Sansom street; P. Haibach Cont. Co., Twenty-sixth and Thompson streets; Warren-Moore Co., Colonial Trust Building; Ketcham & McQuade, 1029 Brown street; Metzger & Fisher, Otis Building; A. R. Raff Const. Co., 1635 Thompson street; John R. Wiggins Co., Otis Building, on everything, and Matthew Morrison & Son, 2322 North Howard street, are figuring on lumber shed only.

Parish House and Parsonage, Seventh street and Boulevard. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. Walter C. Sandt, 55204 North Carlisle street, Philadelphia. Hollow tile and stone, 2 stories, 50x75 feet, slate and composition roof, steam and hot water heating, tile work, hardwood floors. Plans completed. Architects ready for bids.

Bakery, 1229 Federal street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Sessinia, 1420 Wharton street, Philadelphia. Stone foundations, brick, 2 stories, 15x53 feet, slag roof, cement and yellow pine floors, electric lighting, tile work, hollow metal skylight, flush bulks, metal ceilings, concrete and steel subway, brick ovens. Plans in progress.

Store and Residence (alts.), 1231 Federal

street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Sessinia, 1420 Wharton street, Philadelphia. Brick, 3 stories, consists of general interior and exterior alterations. Plans in progress.

Store (alt.), 144 North Twelfth street, Philadelphia. Architect, J. E. Fieldstein, Hale Building, Philadelphia. Owner's name withheld. Brick, 2 stories, slag roof, steam heating, electric lighting, rolled steel skylights, cement and pine floors, metal lath, metal ceilings (plumbing reserved). Architect taking bids, due October 2nd. E. J. Kreitzburg, 1345 Arch street; D. Henwood, 1509 Wood street, and P. J. Hurley, 1233 Cherry street, are figuring.

Hotel (alts.), Ninth and Chestnut streets, Philadelphia. Architect, private plans. Owners, Continental Hotel Co., Ninth and Chestnut streets, Philadelphia. Consists of new partitions, new bar fixtures and plumbing. Owners, care of Mr. Eckman, chief engineer, Ninth and Chestnut streets, have received bids.

Power House, Twenty-eighth and Passyunk avenue, \$50,000. Architect, private plans. Owners, Atlantic Refining Co., 3144 Passyunk avenue, Philadelphia. Brick, 1 story, 82x84 feet, slag roof, cement floors. Owners taking sub-bids.

Residence (alt. and add.), 6314 Wissahickon avenue, Germantown. Architect, J. Horace Frank, Real Estate Trust Building, Philadelphia. Owner, Frank B. Johnston, on premises. Brick, 2½ stories, shingle roof (heating, plumbing, electric work reserved), tile work. Architect taking bids, due October 8th. Graham-Campion Co., Otis Building; William J. Gruhler Co., 219 East High street, and Samuel Harting, 22 Harvey street, Germantown, are figuring.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Power Station, Beach and Palmer streets, Philadelphia, \$2,000,000. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Reinforced concrete, steel and brick, structural steel, 5 or 6 stories, 400x400 feet, trussed steel and Barrett roof, cement floors, rolled steel sash, hollow metal skylights, fire and kalamain doors, iron stairs, ornamental iron work, metal lath, plastering, elevators, safety treads, roof ventilators, waterproofing and dampproofing, cranes and hoisting apparatus. Contract awarded to Stone & Webster, northeast corner of Tenth and Sansom streets, Philadelphia.

Garage and Show Rooms, Diamond and Sedgley avenue, Philadelphia, \$22,000. Architect, private plans. Owner, Leo Belmont, 907 Liberty Building, Philadelphia. Concrete, 1 story, 170x116x107 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to Joseph R. Smith, 3102 Euclid avenue, Philadelphia.

Hospital (add.), Girard and Corinthian avenues, Philadelphia, \$1,900. Architect, Frank Rommell, Weighman Building, Philadelphia. Owners, Lankenau Hospital, on premises. Steel and copper, 1 story, 20x25 feet, copper roof, Keystone fireproof block, dumbwaiter, steam heating, terrazzo floors. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Stores and Apartments (alt. and add.), N.

E. Cor. Broad and York streets, \$6,500. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Samuel Levick, care of architect. Brick, 3 stories, slag roof, hardwood floors, hot water heating, electric lighting, tile work, metal ceilings. Contract awarded to Bierns & Cylinder, 521 Mifflin street, Philadelphia.

Tenement House, Queen and Laurens streets, Philadelphia, \$30,000. Architect, private plans. Owner, Walter Bethwell, Hathboro, Pa. Stone and brick, 3 stories, 45x80 feet, slag roof, steam heat, electric lighting. Contract awarded to George A. Glenn, 1208 Arch street, Philadelphia.

Garage, 149 Tulpehocken street, Germantown, \$1,700. Architect, private plans. Owner, H. D. Booth, on premises. Brick, 1 story, 17x21 feet, shingle roof, hot water heating, electric lighting, cement floors. Contract awarded to Wm. C. Wright, 22 Harvey street, Germantown.

Residence (alt. and add.), Gowen avenue and Ardleigh street, Mt. Airy, Philadelphia. Architect, George S. Idell, 34 South Sixteenth street, Philadelphia. Owner, Frank P. Brooke, 7499 Boyer street, Philadelphia. Stone, 2½ stories, two-story frame porch addition, slag roof, hardwood floors, tile work (plumbing, vacuum heat, electric work and composition floors reserved). Contract awarded to Thos. C. Trafford, 1613 Sansom street, Philadelphia.

Office (alt.), Walnut and Juniper streets,

\$1,600. Architect, private plans. Owners, Presbyterian Board of Publication, Witherspoon Building. Brick and granite, mill work, new windows, araway. Contract awarded to Albert Zellfelder, 151 South Broad street, Philadelphia.

Store (alt.), 110 North Ninth street, Philadelphia, \$1,000. Architect, private plans. Owner, A. Carlson, 124 North Ninth street, Philadelphia. Consists of alterations, flush bulks, metal ceiling, marble work, electric lighting extension and fixtures, hardwood floors. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Steel Plant, Tacony, Philadelphia, \$450,000. Architect, Thomas B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corp., Tacony, Philadelphia. Brick, steel, concrete and A. P. M., 1 story, machine shop, 270x130 feet; treating shop, 135x102 feet, forge shop, 136x210 feet, open hearth shop, 189x105 feet, slag, asbestos and asphalt roof, composition and wood block floors, rolled steel sash, hollow metal sash and doors, ornamental iron work. Contract awarded to F. W. Mark Const. Co., Finance Building, Philadelphia.

Pennsylvania Construction News

Hotel, Fourth and Edgemont streets, Chester, Pa. Architect, Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, George Shober, 305 Market street, Chester, Pa. Stone foundations, brick, terra cotta and concrete, 4 stories, 70x80 feet, slag roof, steam heating, combination lighting, tile work, hollow metal skylight, fire tower and fire doors, yellow pine floors, metal lath, trunk lift, roof ventilators, ornamental iron work. Penn Realty Corp., care of Wm. H. Graham, Third and Edgemont streets, Chester, Pa., will be ready for sub-bids on all lines in two weeks.

High School, Laurel and Linden avenue, Bethlehem, Pa. Architect not selected. Owners, Board of Education, Bethlehem, Pa. Work contemplated. Too early for details.

Garage and Warehouse, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, L. O. Gramley, Bethlehem, Pa. Hollow tile and stucco, 2 stories, 31x61 feet, composition roof, steam heating, electric lighting, cement work, gasoline storage. Plans completed. Owner will build.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Charles P. Lynn, Bethlehem, Pa. Brick and frame, 2½ stories, 35x33 feet, slate roof (hot water heating reserved), electric lighting, yellow pine floors. Plans in progress. Owner taking bids.

Garage, Tenth and Northampton streets, Easton, Pa. Architect, E. H. Bittling, South Bethlehem, Pa. Owner, J. H. Pulmer, Nazareth, Pa. Terra cotta (fireproof construction), 2 stories, 25x141 feet, slag roof, steam heating, electric lighting, cement floors, gasoline storage system. Plans in progress.

Apartment, Northampton Heights, Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Jacob Bickler, care of architect. Brick, 2 stories, 24x42 feet and 12x42 feet, slag roof, electric lighting, pine floors (heating reserved). Owner ready for bids.

Residences (14), College Heights, Bethlehem, Pa. Architect, Mr. Green, Bethlehem Trust Building, Bethlehem, Pa. Owner, L. O. Gramley, Bethlehem, Pa. Hollow tile and brick veneer, 2 stories, 20x35 feet, slate roof, pine floors, hot air heating, electric lighting. Plans completed. Owner will build.

General Welfare Building, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, Purchasing



Barrett Specification Roof on
Niagara River Power-Station
of Buffalo General Electric Co.,
Buffalo, N. Y.

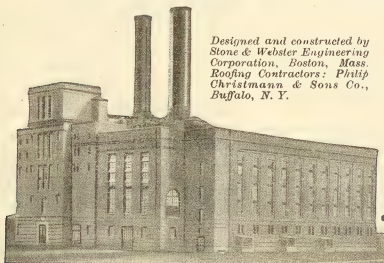
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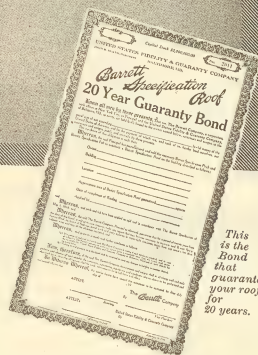
Over the huge turbo-generators and other gigantic yet delicate machinery to which the slightest leak might cause serious damage, are 35,000 sq. feet of Barrett Specification Roofs.

Now this is, of course, a building where quality came first and cost second, and the fact that a Barrett Specification Roof costs *less per year of service* than any other permanent roofing counted for very little compared with the fact that it is the *best roofing to be had regardless of price.*

Barrett Specification Roofs are more popular than any other kind for covering permanent buildings



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This
is the
Bond
that
guarantees
your roof
for
20 years.

because, in addition to costing less per year of service, they require no maintenance, they take the base rate of fire insurance and, further, *they are guaranteed for twenty years, as follows:*

Guaranteed for 20 Years

We are now prepared to give a 20-Year Surety Bond Guaranty on every Barrett Specification Roof of fifty squares and over in all towns in the United States and Canada of 25,000 population and more, and in smaller places where our Inspection Service is available.

This Surety Bond will be issued by the United States Fidelity and Guaranty Company of Baltimore and will be furnished by us *without charge.* Our only requirements are that the roofing contractor shall be approved by us and that The Barrett Specification dated May 1, 1916, shall be strictly followed.

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SURE.

Stick to your work, forget the mob.
Avoid the discontented throng;
For, if you're always on the job
Success is sure to come along.

Department, South Bethlehem, Pa. Brick and steel, 1 story and basement, 160x30 feet, slag roof, steam heating, electric lighting, cement floors, rolled steel sash. Owners have received bids.

Manufacturing Building, Pittsburgh, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Pennsylvania Chocolate Co., 5848 Center avenue, Pittsburgh, Pa. Reinforced concrete, brick and steel. Plans in progress. Too early for details.

High School, Eighth and Fulton streets, Chester, Pa., \$500,000. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, City of Chester, Board of Education, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone and reinforced concrete, 4 stories and basement, 240x115 feet, slate, J. M. or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamein doors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work, ventilating and furniture reserved). Revised plans in progress. Owners will take new bids in about one month.

Farm Barn, Skipback Pike, near Broadaxe, Pa. Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owners, Brookside Farm, Broadaxe, Montgomery County, Pa. Stone and frame, 2 stories, 55x85 feet, shingle roof, cement and wood floors (plumbing and farm equipment reserved). Architect has received bids.

Ward Building and Superintendent's House, Farview, Wayne County, Pa. Architect, J. C. M. Shirk, 421 Chestnut street, Philadelphia. Owners, State Hospital for Criminal Insane, H. G. Ashmead, secretary, 284 City Hall, Philadelphia. Brick, stone and hollow tile, 2 stories and basement, 43x34 feet and 43x75 feet, and 2½ stories, 31x73 feet, slate and slag roof, cement, pine and oak floors, tile, marble and terrazzo work, hollow metal skylights, fire doors, iron stairs, ornamental iron work, metal lath, roof ventilators, wire work (plumbing, steam heat, electric work, ventilating and elevators reserved). Only bidder, Roydhouse-Arey Co., 112 North Broad street. Item No. 1, \$98,840, 10 months; Item No. 2, \$95,998, 10 months; Item No. 3, \$95,187, 10 months; superintendent's house, Item No. 8, \$22,219, no time.

Residence, Royersford, Pa. Architect, Vincent Poley, Royersford, Pa. Owner, J. Linwood Reed, Royersford, Pa. Brick, 1 story, 27x37 feet, shingle roof, yellow pine floors, steam heating, electric lighting. Plans in progress.

Garage, Fleetwood, Pa. Architect, Wayne M. High, Moore Building, Reading, Pa. Owner, A. Merkel, Fleetwood, Pa. Brick, 2 stories, 50x115 feet, yellow pine floors, electric light. Plans in progress.

Apartment House (alt.), Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Read-

ing, Pa. Owner, J. Schulman, Reading, Pa. Brick, 3 stories, 20x44 feet, composition roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans in progress. Architect ready for sub-bids.

Residences (20), Reading, Pa., \$4,500 each. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, John Albrecht, Reading, Pa. Brick, 3 stories. Plans in progress.

Residence, Pottstown, Pa. Architect, Arthur Kepner, Pottstown, Pa. Owner, Robert Perce, Pottstown, Pa. Brick, 2½ stories, slate roof, hot water heating, electric light, tile work, hardwood and pine floors. Architect taking bids, due as soon as possible. F. H. Kaiser & Son, Hutt & Knod, and Wm. H. Wiand, all of Pottstown, Pa., are figuring.

Residence, Walnut street, Royersford, Pa. Architect, Vincent Poley, Royersford, Pa. Owner, H. E. Brant, Royersford, Pa. Brick, 1 story, 40x34 feet, shingle roof, yellow pine floors, steam heating, electric lighting. Owner taking bids, due as soon as possible.

Garage, Andalusia, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owners, Henry F. Michell Co., 518 Market street, Philadelphia. Hollow tile and stucco, 1 story, 28x36 feet, slate roof, cement floor, electric lighting. Architect taking bids, due October 6th. Thomas J. Carberry, Heed Building; J. Sims Wilson Co., 1125 Brown street, Philadelphia, and A. E. Hoffmeier, Andalusia, Pa., are figuring.

Storage Shed, Andalusia, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, Henry F. Michell Co., 518 Market street, Philadelphia. Frame and flexible tile, 1 story, 75x21 feet, flexible roof, electric lighting, cement floor. Architect taking bids, due October 6th. Thomas J. Carberry, Heed Building; J. Sims Wilson Co., 1125 Brown street, Philadelphia, and A. E. Hoffmeier, Andalusia, Pa., are figuring.

Factory Building, Third and Tilghman sts., Chester, Pa. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, H. M. Davis, Lincoln Building, Philadelphia. Hollow tile and stucco, 1 story, 60x35 feet, slag roof, steam heating, electric lighting, cement floors, hollow metal skylights. Plans in progress.

Bakery Building, Chestnut street, between First and Second streets, Coatesville, Pa. Architect, L. Zenis Slawter, Coatesville, Pa. Owner, L. Jaffee, on premises. Brick and stone, 2 stories, 22x60 feet, slag roof, electric lighting, pine floors. Plans about completed. Architect ready for bids.

Store Building, East Main street, Coatesville, Pa. Architect, L. Zenis Slawter, Coatesville, Pa. Owner, Carl Rausscher, Coatesville, Pa. Brick, 1 story, 50x45 feet, slag roof, pine floors, hot air heating, electric lighting. Architect taking bids, due October 12th. W. J. Elliott, Westley Beard & Son, Harry Osborne, and Joseph Eleessor, all of Coatesville, Pa., are figuring.

Mill Building, Third and Tilghman streets,

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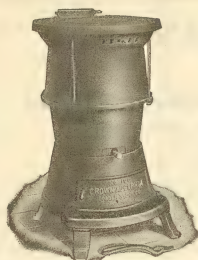
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Chester, Pa. Architect, Herman H. Kline, Sixth and Middin streets, Philadelphia. Owners, Aluminum Brazing Co. of Pennsylvania, 629-30 Penn street, Chester, care of Mr. Frank S. Davis, on premises. Stone foundations, brick, 1 story, 35x60 feet, slag roof, concrete floor, steam heating, electric lighting, mill work, hollow metal skylights, special mould fire brick forges. Plans completed. Owners and architect ready for bids.

Mine Storage Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yard and Docks, F. R. Harris, Chief, Navy Department, Washington,

D. C. Reinforced concrete, brick and stucco, 1 story, 109x50 feet, asbestos shingle roof, pine floors, hollow tile, rolled steel sash. Owners taking bids, due October 15th. W. W. Anstine & Co., 1218 Filbert street, and Wm. Linker & Sons, 831 Cherry street, are figuring.

Building, who are taking sub-bids, due October 5th.

Boiler House, Calender Room and Mill, Cheltenham, Pa. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owners, Hoffman, De Witt & McDonough Co., Inc., Cheltenham, Pa. Brick and steel, 1 story, 52x60 feet, slag roof, cement and pine floors, electric light, rolled steel sash, fire doors, roof ventilators. Contract awarded to Wm. Linker Co., 831 Cherry street, Philadelphia.

Garage and Hall Building, Eighth and Bingham streets, Reading, Pa. Architect, G. C. Freeman, Reading, Pa. Owner, Michael Wolicka, on premises. Brick, 1 story, 65x50 feet, slag roof, pine floors, electric lighting, metal lath, gasoline storage system. Contract awarded to Wm. Gaul, Reading, Pa.

Boiler House, Reading, Pa. Architects, Muhlenberg Bros., Second National Bank Building, Reading, Pa. Owner, T. A. Willson & Co., Reading, Pa. Brick, 1 story, 45x25 feet, asbestos roof, concrete floors. Contract awarded to Beard Const. Co., Reading, Pa.

Apartment House, Ardmore, Pa. Architect, John C. Norton, Ardmore, Pa. Owner's name withheld. Brick, 4 stories, 107x89 feet, built up roof, pine and hardwood floors, hot water heating, electric lighting, tile and marble work, metal lath, elevators. Contract awarded to Pennsylvania Co. of Engineers, 24 E. Lancaster avenue, Ardmore, Pa.

Bungalows (4), Ardmore Park, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, L. H. Landow, Sixty-eighth and Walnut sts., Philadelphia. Frame, 1½ stories, 16x60 feet, asphalt roof, pine floors, hot water heating, electric lighting. Contract awarded to Pennsylvania Co. of Engineers, 24 E. Lancaster avenue, Ardmore, Pa.

Club House, Edgehill, Montgomery County, Pa., \$100,000. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Lu Lu Temple Country Club, Fitzwater-town, Montgomery County, Pa. Stone, brick

PENNSYLVANIA
Contracts Awarded

Stores (2) (alt. and add.), 4330-32 Germantown avenue, Philadelphia. Architect, Charles S. Parker, 5018 Schuyler street, Germantown. Owner, David Weiss, 4300 Germantown avenue, Germantown. Brick, 1 story rear addition, 16x14 feet, slag roof, pine floors, new fronts, tile and marble work, metal bulks (electric work reserved by owner). Contract awarded to James H. Walter, 168 East Walnut Lane, Germantown.

Church, Eighty-sixth and Bartram avenue, Philadelphia, \$5,500. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owners, Elmwood A. M. E. Church, care of Board of Trustees, on premises. Basement only, stone, 35x53 feet, slag roof, hot air heating, electric lighting, yellow pine floors. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

Bridges (2), Nos. 25 and 50, South of Pocopson, over Pocopson Creek, and south of Wanamaker, over Ontonlance Creek. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Timber, concrete, steel and metal caging. Contract awarded to Ault Const. Co., Widener Building, Philadelphia.

Bridge No. 51, south of Wanamaker, over Ontonlance Creek. Engineer, Samuel T. Wag-

ner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Timber, concrete and steel, metal caging. Contract awarded to Bennett & Randall, Lebanon, Pa.

Barn, Bethlehem, Pa. Architect, A. W. Leh, Telegraph Building, South Bethlehem, Pa. Brick and frame, 2 stories, 553x26 feet, slate roof, pine floors. Contract awarded to Robt. S. Rathbun, Bethlehem, Pa.

Municipal Building (alt. and add.), Market Hall, South Bethlehem. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Borough Council, Borough of South Bethlehem, South Bethlehem, Pa. Brick, 3 stories, asphalt roof, hollow tile and pine floors (heating, lighting and elevator reserved), hollow metal skylights, elevators, roof ventilators, dampproofing, ornamental iron work. Contract awarded to Robert S. Rathbun, Bethlehem, Pa.

Warehouse (alt. and add.) and Garage, York, Pa. Architect, private plans. Owners, Atlantic Refining Co., 3144 Passyung avenue, Philadelphia. Reinforced concrete, brick and terra cotta, 2 stories, 59x27 feet and 1 story, 59x27 feet, slag roof, cement and asphalt floors, steam heating, electric lighting, rolled steel sash, fire doors, ornamental iron work, elevators, safety treads, roof ventilators. Contract awarded to Metzger & Fisher, Otis

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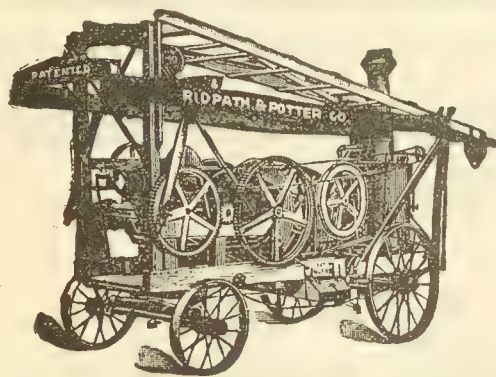
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and steel, 2 stories, 88x30 feet, shingle roof, oak, pine, marbleoid and composition floors, tile and marble work, metal lath, hollow tile,

metal weatherstrips (lighting, plumbing, heating reserved). Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

**NEW JERSEY
Construction News**

Hotel, Camp Dix, Wrightstown, N. J. Architect, private plans. Owner, Chris. Koch, Windrim and Lindley avenues, Philadelphia. Brick, lath and stucco, 3 stories, 160x100 feet (100 to 125 rooms), steam heating, electric lighting. Plans about completed. Owner will be ready for bids in a few days.

Apartment House, Atlantic City, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner's name withheld. Brick, hollow tile and plaster, 2 stories, 90x35 feet, slate and tile roof, hot water heating, electric lighting. Plans in progress.

Yacht Club, Ocean City, N. J. Architect, Maurice Golden, Crozer Building, Chester. Owners, Republican Club of Philadelphia, care of architect. Frame, 2 stories, 60x120 feet, shingle roof, pine floors, hot air heating, electric lighting. Architect taking bids. Harry Ellis, Mr. Black, both of Ocean Gate, N. J., and the Rhodenburg Co., Inc., New York City, are figuring.

Garage and Work Shop, 108 North Virginia avenue, Atlantic City. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, Lewis Saltzman, on premises. Brick, 2 stories, 45x42 feet, slag roof, concrete floors, electric lighting. Plans in progress. Owner will be ready for bids October 6th.

Residence (alt. and add.), 35 North Pennsylvania avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, David Brown, on premises. Frame, consists of raising present frame structure on one-story new brick addition, hot water heating, electric lighting, hard-

wood and concrete floors, dampproofing. Owner taking bids.

Apartments, 15 South Rhode Island avenue, Atlantic City, N. J., \$50,000. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, Paul Taylor, 400 Guarantee Trust Building, Atlantic City, N. J. Brick, 3 stories, 50x130 feet (24 apartments), slag roof, hot water heating, tile and marble work, hardwood floors, hollow tile, metal lath, hollow metal skylights. Owners taking sub-bids.

Residence and Garage (alt. and add.), N. E. Cor. Harrisburg and Thorofare, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Allan K. White, on premises. Brick and frame, 3 stories, slate roof, composition floors, hot water heating, electric lighting, tile and marble work (heating and lighting reserved), elevator. Plans in progress. Architect will take bids about October 5th.

Stable, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, R. C. Kolb, Trenton, N. J. Brick, 1 story, 30x70 feet, slag roof (hot water heating reserved), electric lighting, cement floors. Architects taking bids, due October 4th. Thos. Day, Burton & Burton, Chas. Smith, William Ivins, I. Harper Clayton, Chas. Randall, and Fred Parker, all of Trenton, N. J., are figuring.

Store and Dwelling, South Clinton avenue, Trenton, N. J. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, Fred Bennett, Trenton, N. J. Brick, 2 stories, 25x60 feet, slag roof, yellow pine

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floors (hot water heating, electric lighting and plumbing reserved). Owner taking bids, due as soon as possible. Burton & Burton, Chas. Randall, Fred Scott, and Thomas Day, all of Trenton, N. J., are figuring.

Office Building (add.), Fifth and Federal streets, Camden, N. J. Architect, Arthur Truscott, 19 Springfield avenue, Merchantville, N. J. Owners, Camden Fire Insurance Association, on premises. Brick (fireproof construction), 1 story, 20x150 feet, composition roof, steam heating, electric lighting, rolled steel sash, cement floors, metal lath (heating, plumbing and electric work reserved). Architect taking bids, due October 8th. Geo. Bachmann, J. W. Draper, F. E. Turner Const. Co., and Wm. Wrifford, all of Camden, N. J., are figuring.

Calf Barn, New Brunswick, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, State Agricultural College, New Brunswick, N. J. Hollow tile and stucco, 1½ stories, 38x105 feet, composition roof, concrete floors, electric lighting, roof ventilators. Owner taking bids, due October 9th. Geo. B. Ruhler and A. Vorhees, both of New Brunswick, N. J.; F. H. Downall, Jamesburg, N. J.; Wm. Matthews, Princeton, N. J.; H. H. Vought, Grand Central Terminal, New York City; Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, are figuring.

**New Jersey
Contracts Awarded**

Theatre, Wrightstown, N. J., \$20,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Camp Dix Amusement Co., Wrightstown, N. J. Frame, 1,350 square feet, rubberoid roof, wood floors (heating and lighting reserved). Contract awarded to J. A. Bader, Wilmington, Del.

Garage, West State street, Trenton, N. J., \$3,000. Architect, J. O. Hunt, 144 North Mont-

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MARYLAND

Construction News

gomery street, Trenton, N. J. Owner, Henry N. A. K. Bugbee, Trenton, N. J. Brick, 1 story, 22x28 feet, slate roof, steam heating, electric lighting, cement floors. Contract awarded to Burton & Burton, American Mechanics' Building, Trenton, N. J.

Engine Room and Drying Room, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owners, De Lion Tire and Rubber Co., East State street, Trenton, N. J. Brick, 2 stories, 30x45 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, reinforced concrete floors, metal lath. Contract awarded to James H. Morris, Broad Street Bank Building, Trenton, N. J.

Incinerator (City Crematory), Southard street, Trenton, N. J. Engineer, A. C. Gregory, City Hall, Trenton, N. J. Owners, City of Trenton, N. J., Board of Commissioners, City Hall. Brick and steel, 2½ stories, 48x50 feet, slag roof, electric lighting, rolled steel sash. Low bidder, James H. Morris, Broad Street Bank Building, Trenton, N. J.

Garage and Chauffeur's Quarters, South North Carolina avenue, Atlantic City, N. J. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner's name withheld. Brick, 1 story, 22x45 feet, asbestos shingle roof, cement floors (hot water heating, gasoline storage system reserved), electric lighting, marble work, cement floors. Contract awarded to Philip G. Hannum, 16 North Georgia avenue, Atlantic City, N. J.

Bank Building, corner Broadway and Carman street, Camden, N. J., \$60,000. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Merchants' Trust Co., on premises. Marble, brick and reinforced concrete, 1 story and basement and mezzanine, 39x90 feet, slag roof, cement and pine floors, hollow tile, steam heating, electric lighting, tile and marble work, hollow metal sash, fire doors, ornamental iron work, metal lath, roof ventilators, metal window guards, waterproofing, wire work. Contract awarded to Charles McCaul Co., 1713 Sansom street, Philadelphia.

Hospital (alt.), South Ohio avenue, Atlantic City, N. J. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Atlantic City Hospital, South Ohio avenue, Atlantic City, N. J. Consists of interior alterations to operating rooms and elevator repairs. Contract awarded to W. S. Beaumont, 10 South Tennessee avenue, Atlantic City, N. J.

Garage and Greenhouse, Singerly, Md. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owner, T. W. Bacehus, Singerly, Md. Frame, 1 story, 40x28 feet, 28x14 feet, slate roof, cement floors, gasoline storage system. Plans about completed. Architect ready for bids.

Residence (alts.), Ruxton, Md. Architect, James S. Nussear, 330 North Charles street, Baltimore. Owner, E. L. Dinning, 213 Chamber of Commerce Building, Baltimore, Md. Frame, hot water heating, electric lighting, painting, plumbing. Thornton W. Cox, Pikesville, Md., is taking sub-bids.

Bungalow, Mt. Winans, Md., \$2,500. Archi-

tect, Fred E. Beall, 306 St. Paul street, Baltimore, Md. Owner, Mrs. Susie Campbell, Mt. Winans, Md. Frame, 2 stories, 20x28 feet, tin roof, electric lighting, plumbing, plastering, painting. Charles H. Johnson, 519 Roberts street, Baltimore, Md., is taking sub-bids.

Automobile Plant, Cumberland, Md., \$5,000,-000. Engineers, S. Diescher & Sons, Farmers' Bank Building, Pittsburgh, Pa. Owners, Kelly-Springfield Tire Co., Akron, Ohio. Power house, machine shop, pump house, water works building. Brick, steel and concrete, sewage system, retaining wall, 60 foot boulevard in front of plant and extensive land improvements. Will build in the spring of 1918.

MARYLAND

Contracts Awarded

Dwellings (12), 3001-23 Arunah avenue, Baltimore, Md., \$24,000. Architect, private plans. Owners, Ellicott Heights Co., Baltimore, Md. Brick, 2 stories, 14x44 feet, slag roof, electric lighting. Contract awarded to George R. Morris, 533 Title Building, Baltimore, Md.

Garage, rear 1721 Baker street, Baltimore, Md. Architect, J. C. Spedden, Baltimore, Md. Owner, Samuel Robinson, 1721 Baker street, Baltimore, Md. Brick, 1 story, 20x55 feet, slag roof, steam heating, electric lighting, cement floor. Contract awarded to A. Brown, 63 W. West street, Baltimore, Md.

Stable, Clarkson street, near Winder street,

Baltimore, Md. Architect, private plans. Owners, American Oil Co., N. Blaustein, president, American Building, Baltimore, Md. Brick, 2 stories, 25x50 feet, slag roof, cement floors. Contract awarded to Herbert & Prodoehl, Munsey Building, Baltimore, Md.

Shelter Shed, Sparrows Point, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore, Md. Owners, United Railways and Electric Co., Continental Building, Baltimore. Frame and stucco, 1 story, 15x35 feet, slag roof, hollow metal sash, painting, plumbing. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore, Md.

Miscellaneous Construction News

Residence, Newark, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, George L. Townsend, Ford Building, Wilmington, Del. Frame, 2½ stories, 30x40 feet, shingle roof, oak and pine floors, electric lighting. Architect taking bids, due as soon as possible. George Rodman, Charles J. Dougherty, and Charles Bryce, all of Wilmington, Del., are figuring.

Bridges, Nos. 59 and 60, across Brandywine Creek, south of Brandamore, Del. Engineer, Samuel T. Wagner, 522 Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Twelfth and Market streets, Philadelphia. Lumber, steel and concrete, stone, metal caging, 136 and 112 feet long and 18 feet wide, 4,000 feet of timber, waterproofing, ornamental iron work. Owners tak-

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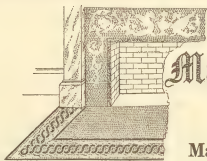
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PHILADELPHIA, PENNA.

ing bids, due October 4th. A. L. Carhart, Hale Building; Brann & Stuart, Commercial Trust Building; McClintic Marshall Co., Morris Building; Ault Construction Co., Widener Building, are figuring.

Residences (30), Claymont, Del. Architect, private plans. Owners, Worth Bros., Claymont, Del. Hollow tile, 2 stories, 28x32 feet, asbestos shingle roof, hot air heating, electric lighting, pine floors. Contract awarded to J.

A. Bader, Lackey Building, Wilmington, Del.

Mill Building, Augustine Mills, Wilmington, Del. Architect, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Jessup & Moore Paper Co., Elkton, Md. Brick (slow burning construction), 2 stories, 136x38 feet, slag roof, cement and plank and maple floors, rolled steel sash (heating, sprinklers and electric work reserved). Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 1618 North Sixteenth street, \$500. Lewis Zeigler (O), on premises. M. Swartley (C), 6835 Ridge avenue. Brick, 1 story, 13x24 feet, slag roof.

Factory, Comly and Milnot streets, \$5,000. Quaker City Rubber Co. (O), on premises. Barclay White Co. (C), 1713 Sansom street. Reinforce concrete footing.

Machine Shop, Wissahickon and Hunting Park avenues, \$85,000. Midvale Steel Co. (O), Nicetown. Barclay White Co. (C), 1713 Sansom street. Iron and metal frame, 1 story, 112x209 feet.

Dwellings (4), Eighty-third street, south of Bartram avenue, \$6,000. George Kyle (O and C), Seventy-third and Gray's avenue. Brick,

2 stories, 14x36 feet, slag roof, hot water heating.

Dwellings (4), Fourth street, south of Lindley avenue, \$11,600. William J. Baltz (O and C), 709 Butler street. Brick, 2 stories, 15x28 feet, slag roof, hot water heating.

Garage, 5403 Woodbine avenue, \$900. Percival Johnson (O and C), 4039 Lancaster avenue. Brick, 1 story, 16x22 feet, tin roof.

Garage, 4334 Dexter street, \$300. J. Schaefer (O), on premises. Brown Sons & Co. (C), 4600 Main street. Brick, 1 story, 10x16 feet.

Dwelling, Gowen avenue and Crittenden streets, \$5,000. J. S. Miller (O and C), Glen-side, Pa. Stone, 3 stories, 35x29 feet, slate roof, hot water heating.

Dwellings (2), Leverington and Manayunk avenues, \$6,000. Martin Keller, Jr. (O), 326 Dupon street. Wm. E. Keller (C), 408 Harmon road. Brick, 3 stories, 14x29 feet, slate roof.

Dwellings (16), Hutchinson and Ruscomb streets, \$39,000. W. Fitcher (O and C), 3621 North Fifth street. Brick and stone, 2 stories, 155x33 feet, slag roof, hot water heating.

Garage, Ashdale and Fifth streets, \$500. J. Reebstock (O), on premises. Wm. Schmitt (C), 4936 North Fairhill street. Brick, 1 story, 24x18 feet, slag roof.

Garage, Margaret and Duffield streets, \$1,000. J. Ward (O), on premises. Rush Bros. (C), 1100 Fillmore street, Frankford. Brick, 1 story, 26x28 feet, slag roof.

Garage, Fifty-third and Woodland avenue, \$13,000. James E. Sharkey (O and C), 5331 Woodland avenue. Brick, 1 story, 53x226 feet, slag roof.

Garage, Sixty-third and Woodbine avenue, \$12,000. W. Jones (O), 1909 North Sixty-third street. F. T. Mercer (C), 1706 De Lancey street. Brick, 1 story, 80x100 feet, rubberoid roof.

Tenement House, Queen and Laurens streets, \$30,000. Walter Rothwell (O), Halboro, Pa. George A. Glenn (C), 1208 Arch street. Stone and brick, 3 stories, 45x59 feet, slag roof, steam heating.

Dwellings (3), Phil Elleana and Arbutus streets, \$30,000. James W. Mitchell (O and C), Forty-sixth and Market streets. Stone, 3 stories, 37x28 feet, slate roof, hot water heating.

Garage, 149 West Tulphocken street, \$1,700. H. D. Booth (O), on premises. William C. Wright (C), 22 Harvey street. Brick, 1 story, 17x21 feet, shingle roof, hot water heat.

Coal Storage, Fairmount avenue and Beach street, \$500. Ajax Metal Co. (O), 46 Richmond street. M. Ward Easley, Inc. (C), 1420 Chestnut street. Open shed, 24x65 feet.

Garages, Whitley avenue and Fifty-third street, \$6,000. John F. Holland (O and C), 309 South Fifty-first street. Brick, 100x34 feet and 117x17 feet, 1 story, slag roofs.

Garage, Raymond and Eighth streets, \$7,550. Frank Bradford (O), 730 Northeast Boulevard. Edw. B. Miller (C), 4313 North Eighth street. Brick, 1 story, 14x19 feet, slag roof.

Machine Shop, Fifteenth and Reed streets, \$700. J. Pieneci (O), 1333 Reed street. D. Misantone (C), 1428 South Fifteenth street. Brick, 1 story, 18x38 feet, slag roof.

Factory, Twentieth and Godfrey streets, \$7,100. H. F. Stott (O), 2517 Chelton avenue. Stokes Bros. (C), 6723 Musgrove street. Brick, 1 story, 49x555 feet, slag roof.

Office and Storage, 1017-19 Wood street, \$6,500. Schwaller Co. (O), 320 Cherry street. Harrison C. Rea (C), 1314 Arch street. Brick, 2 stories, 36x48 feet, slag roof.

Automobile Salesroom, 1627-29 Arch street, \$55,000. Mastbaum & Fleisher (O), Finance

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

You Don't Waste Time and Energy

Chasing "FALSE ALARMS" when you use DAILY BUILDING NEWS. Every item is carefully verified BEFORE PUBLISHED—you receive all necessary details. It costs a trifle more than the "slush" building news in the daily newspapers, but—

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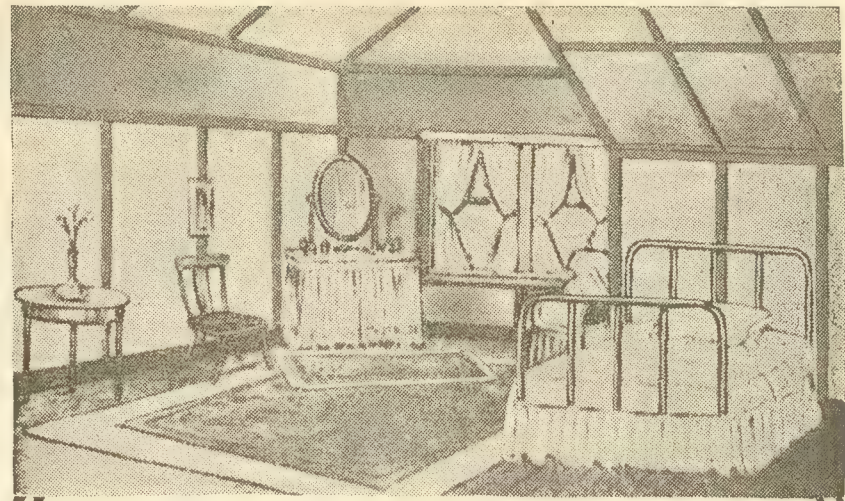
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USE

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For Lining Bungalows, Damp Walls, Attics, Garages, Poultry Houses, Etc.

Thoroughly established as the most economical material for interior lining. Artistic, quickly installed, durable and dependable, it is just what you are looking for. It has been called by many "The Board without a Peer." Ceil-Board's the real board.

James E. Tague & Co.

Specialists in Factory and Jobbing Lumber

Lumber Yards

Philadelphia Agency

Northeast Corner 10th and Columbia Avenue

Northwest Corner 19th and Cambria Streets

Building. Cramp & Co. (C), Denekla Building. Brick, reinforced concrete, 2 stories, 43x94 feet and 52x13 feet, irregular, slag roof, steam heating.

Dwellings (3), Phil Ellena, Arbutus and Lincoln Drive, \$24,000. James A. Mitchell (O and C), Forty-sixth and Market streets. Stone and brick, 3 stories, 37x28 feet, slate roof, hot water heating.

Greenhouse, 6407 North Seventh street, Oak Lane, \$700. D. S. Klauder (O and C), on premises. Iron and wood, glass, metal lath and plastering, hot water heating, 11-17 feet.

Garage, 8219 Buist avenue, \$300. Wm. R. Snyder (O), on premises. Robert West (C), 8220 Buist avenue. Brick, 1 story, 16x20 feet.

Dwelling, Roxborough and Haughton streets, \$2,000. H. Missimer (O and C), 8115 Ridge avenue. Brick, 2 stories, 16x44 feet, slag or tin roof, hot water heating.

Garage, 6401 Drexel Road, \$2,000. Mrs. F. D. Casanane (O), on premises. Milton W. Young (C), Overbrook, Pa. Brick, 1 story, 15x23 feet, cement floor, tile roof.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers "stick" year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

There's one variety of advertiser who gets our Angora. This is the chap who can't afford a large space and doesn't advertise, as a regular thing, because a small space "isn't seen." Some of the biggest advertisers we have started out with small space. Ask them whether the small space is seen. If advertisers had to wait until their businesses developed to full page stature before advertising, there'd be mighty few advertisers. The big man becomes big by growth. And growth starts with the seed.

Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertise!

No one suffers from a mean disposition like the fellow who has one.

Our specialty is Portland Cement that will stick and pass the City Department. **DAVID FRANCE CO.,** Tasker Street Wharf, Delaware River, Philadelphia.

Alterations and Additions

Garage, 125 South Third street, \$1,400. Philadelphia Quartz Co. (O), 121-123 South Third street. R. C. Ballinger (C), 218 North Third street. Alterations.

Dwelling, Sentner and G streets, \$4,000. James McDowell (O), Rising Sun avenue and Benner street. William Schmitt (C), 4936 W. Fairhill street. Brick, 3 stories, 16x34 feet, slag roof, hot water heating.

Hospital, Southampton and Meeting House Road, \$4,500. City of Philadelphia (O). Rust Engineering Co. (C), Farmers' Bank Building. Chimney, 100 feet high.

Mill, Seventeenth and Hunting Park avenue, \$3,000. Sawquit Silk Co. (O), on premises. J. H. Roberts (C), Lansdowne, Pa. Brick, 1 story, 16x17 feet, also alterations.

Storage, Wingohocking and Frankford Creek, \$3,800. Philadelphia Felt Co. (O), Frankford. J. A. Hand (C), 8029 Frankford avenue. Brick, 1 story, 58x41 feet, slag roof.

Garage, 5318-22 Lancaster avenue, \$300. John Wanamaker (O and C), Thirteenth and Market streets. Cutting opening and building new doors.

Store and Dwelling, Stenton avenue and Spencer street, \$1,285. Frank Blumhardt (O), 3841 North Fifth street. F. I. Wintz (C), 1618 North Twenty-seventh street. Alterations.

Store and Dwelling, 2026 North Front street, \$340. John Kinderman (O), 529 North Fourth street. A. Bubenstein (C), Hope and Diamond streets. Change window into doorways.

Tenement House, 5300 Race street, \$1,260. John Gormly (O), Norristown, Pa. James McCann (C), 1704 Poplar street. Brick, 1 story, 17x3 feet.

Nurses' Home, Thirty-fourth and Spruce streets, \$1,500. University of Pennsylvania (O), on premises. Pomeroy Const. Co. (C), 1609 Ranstead street. Alterations.

Store, York and Broad streets, \$700. S. Levick & Louis Keymer (O), 3232 Norris street. Bierns & Cylinder (C), 521 Mifflin street. Brick, 1 story, 11x16 feet, slag roof, addition.

Store and Dwelling, 808 South Second street, \$3,000. Harry Berman (O), 783 South Second street. A. Rubin (C), 1127 Thompson street. Brick, 2 stories, 14x24 feet, slag roof. Interior alterations.

Bake Shop, 1022-24 South Eleventh street, \$6,800. N. A. Mariulli (O), 1020 South Eighth street. Wm. F. Koelle & Co. (C), Eleventh and Oxford streets. Brick, 2 stories, 30x16 feet, slag roof.

Dwelling, 1433 North Eighteenth street, \$4,000. Milton Buzby (O), 505 West Chelane. T. M. Keeley (C), 4411 Germantown avenue. Interior alterations.

Dwelling, 2054 East Dauphin street, \$700. F. Faul (O), on premises. Matthew Morrison & Son (C), 2322 North Howard street. Brick, 2 stories, 12x20 feet, tin roof.

Storage, Pennypack Creek and Frankford avenue, \$2,500. Summerdale Dyeing and Finishing Co. (O), Holmesburg. J. A. Hand (C), 8029 Frankford avenue. Brick, 1 story, 48x58 feet, slag roof, fire doors.

Dwelling, 1404 Wharton street, \$500. Frank Blundi (O and C), on premises. Brick, 1 story, 12x12 feet, slag roof.

Dwelling, 4617 Chestnut street, \$400. N. Lyshutz (O), on premises. Benj. Linker (C), 831 Cherry street. Enclose porch, 17x8 feet.

Dwelling, 1818 Spring Garden street, \$2,500. Russian Bible Educational Society, on premises. F. B. Davis (C), 240 North Sixteenth street. Erect fire tower, 4 stories, 15x9 feet.

Store and Dwelling, 804 South Fourth street, \$960. N. Colton (O), 800 South Fourth street. Morris Kravitz (C), 815 North Marshall street. Brick, 1 story, 10x11 feet, slag roof and new bulk front.

Factory, New street, East of Third street, \$600. H. O. Wilbur & Son, Inc. (O), Third and New streets. Wm. Steele & Son Co. (C), 30 South Fifteenth street. Alterations.

Dwelling, 109 East Lehigh avenue, \$420. J. Bee (O), on premises. John H. Gordon (C), 2314 East Lehigh avenue. Brick, 2 stories, 12x13 feet, slag roof.

Factory, 1204 Nectarine street, \$600. Timis Oker Testing Machine Co. (O), Twelfth and Buttonwood streets. Lam Building Co. (C), 1001 Wood street. Alterations.

Dwelling, 6209 Girard avenue, \$400. J. J. Malloy (O), on premises. Christian White (C), 511 North Sixty-third street. Brick, 1 story, 14x12 feet, tinroof.

Factory, Randolph and Columbia avenue, \$3,900. McNeely & Co. (O), 1723 North Randolph street. Sutton & Stephenson (C), 1317-19 Washington avenue. Elevator shaft, brick.

Storage, 2041 Arch street, \$800. M. E. Cumisky (O and C), Land Title Building. Brick, 1 story, 16x33 feet, slag roof.

Storage, 211 North Third street, \$2,490. Girard Trust Co. (O), Broad and Chestnut streets. J. Morris Daniels (C), 252 South Juniper street. Fire repairs.

Garage, 1912-14 De Lancey street, \$900. E. B. Smith (O), Nineteenth and De Lancey streets. J. S. Cornell & Son (C), Morris Building. Interior alterations, cement floor.

Garage, Allegheny and Frankford avenues, \$3,000. Wm. Eppley (O), on premises. Chas. Knabb (C), 2145 East Letterly street. Brick, 2 stories, 30x20 feet, slag roof.

Store, Edmond street, Hawarth, \$300. C. H. Wulf (O), 5018 Edmond street. Anton Ahlers (C), 3425 Howell street. Brick, 1 story, 14x20 feet, slag roof.

Store, 1817 South Ninth street, \$450. C. Christin (O), Ninth and Christian streets. C. V. Seurei (C), 1231 Christian street. Flush bulk.

Garage, 4830 D street, \$450. E. Sylvester, Jr. (O), on premises. M. Moister Co. (C), 3931 North Fifth street. Iron on iron, 20x20 feet, 1 story.

Dwelling, 819-21 Christian street, \$1,200. F. De Bernardino (O), Sixty-fourth and Vine streets. C. Strozlia (C), 922 South Twelfth street. New flush bulk and alterations.

Printing, 2250 North Ninth street, \$500. George W. Lord Co. (O and C), 2238-50 North Ninth street. Brick, 2 stories, 18x20 feet, rub heroid roof.

Dwellings, Thoop's Lane and Eighteenth street, \$5,000. Fouche Estate, J. A. Scanlan, trustee (O). Drexel Building. H. M. Miller (C), 1815 Wallace street. Fire repairs.

Church, Rector and Cresson streets, \$4,000.

Monsignor Murphy (O), on premises. Melody & Keating, 1322 Race street. Alterations.

Store and Dwelling, Broad and York streets, \$5,700. Levick & Kapner (O), 3232 West Norris street. Bierns & Cylinder (C), 521 Mifflin street. Brick, 3 stories, 16x11 feet, slag roof, flush bulk.

Factory, Randolph and Columbia avenue, \$7,260. Henry H. Sheip Manufacturing Co. (O), Sixth and Columbia avenue. Sutton & Stephenson (C), 1317 Washington avenue. Alterations.

Garage and Storage, 1236 West Thompson street, \$845. Wm. Margerum (O), on premises. R. S. Heckler (C), Lansdale, Pa. Low pressure steam heating plant.

Dwelling, 8021 St. Martin's Lane, \$770. Houston Estate (O). James Spear Co. (C), 1823 Market street. Hot air heater.

Toilet Room, Freeland avenue, Walnut Lane, \$500. A. Flanagan & Bro. (O), on premises. Wm. H. Eddleman & Sons (C), 453 Green Lane. Replace wooden partition with hollow tile.

Dwelling, 429-31 Taber Road, \$3,000. Chas. H. Mack (O), on premises. L. Davies (C), Thirteenth and Nedro streets. Brick, 1 story, 16x16 feet, and 14x52 feet, slag roof.

Bank, connecting 408 Chestnut street to 108 South Fourth street, \$490. Federal Reserve Bank (O), 408 Chestnut street. Wm. R. Dougherty (C), 1610 Sansom street. Build enclosed galvanized iron, slag roof.

Store and Dwelling, Ninth and Ellsworth streets, \$1,400. Tony Rugiene (O), on premises. M. Cipriano (C), 1134 Watkins street. New flush bulk.

Store and Dwelling, 1019 Bainbridge street, \$500. Francesco Dangio (O), on premises. Tony Tadi (C), 708 South Randolph street. Flush bulk.

Office, Hazzard and Gaul streets, \$500. H. Hitner & Sons (O), Aramingo and Huntington streets. A. R. Raff Co. (C), 1635 Thompson street. Brick vault, 2 stories, 9x8 feet.

Factory, Westmoreland and Stockley streets, \$533. Philadelphia Drying Machine Co. (O), on premises. W. Geshwind (C), 761 North Twenty-sixth street. Reinforced concrete slab over oil storage.

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Sept. 19, 1917. Sealed proposals will be opened in this office at 3 p. m., Oct. 31, 1917, for the construction of the United States post office at Hollidaysburg, Pa. Drawings and specifications may be obtained from the custodian of the site at Hollidaysburg, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Portland Cement, Sand or Gravel by the carload. Consult DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

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 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
 Ridpath & Potter Co.,.....Bourse Bldg., Phila.
 John B. Rulon.....1355 Colwyn st., Phila.
- Artists' and Architects' Supplies.**
 Chas. H. Robbins.....125 S. 11th st., Phila.
 Warren-Knight Co.,.....136 N. 12th st., Phila.
 F. Weber & Co.,.....1125 Chestnut st., Phila.
- Blue Prints.**
 Chas. H. Robbins.....125 S. 11th st., Phila.
 F. Weber & Co.,.....1125 Chestnut st., Phila.
- Blue Print Paper.**
 Chas. H. Robbins.....125 S. 11th st., Phila.
- Brick (Face, Etc.).**
 O. W. Ketcham.....Builders' Exchange, Phila.
- Brick Renovating.**
 Adolph Christensen.....1433 Brown st., Phila.
- Builders.**
 Graham-Campion Co.,.....Otis Bldg., Phila.
 Hogg Construction Co., Inc.,
 1634 Sansom st., Phila.
 Mitchell Bros.,.....2125 Race st., Phila.
 Pomeroy Const. Co.,.....1609 Ranstead st., Phila.
- Builders' Supplies.**
 P. H. Fairlamb Co.,.....115 S. 30th st., Phila.
 David France Co.,
 Tasker st. wharf, Delaware River, Phila.
- Cement.**
 P. H. Fairlamb Co.,.....115 S. 30th st., Phila.
 David France Co.,
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 Lehigh Portland Cement Co., Penna. Bldg., Phila.
- Columns (Metal).**
 Pearce Fireproof Co.,.....1345 Arch st., Phila.
- Composition Flooring.**
 Philadelphia Mineral Flooring Co.,
 5632 Summer st., Phila.
- Dampproofing.**
 The Barrett Co.,.....New York City and Phila.
- Door Hangers.**
 Grant Pulley and Hardware Co., 101 Park ave.,
 N. Y., and 339 Land Title Bldg., Phila.
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 Charles H. Robbins.....125 S. 11th st., Phila.
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- Electrical Specialties.**
 Large-Dail Mfg. Co.,.....606 Cherry st., Phila.
- Electrical Construction.**
 Baird-Osterhout Construction Co.,
 1620 Chancellor st., Phila.
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 10th and Chestnut sts., Phila.
- Elevators.**
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 Colonial Trust Bldg., Phila.
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 Stover Mfg. & Engine Co.,.....Freeport, Ill.
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- Garage (Portable).**
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- Insurance.**
 Harris J. Latta.....Penna. Bldg., Phila.
 Insurance Co. of North America,
 3rd and Walnut sts., Phila.
- Lumber.**
 James E. Tague & Co.,
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- Marble Mosaic.**
 Belfi Bros. & Co.,.....1923 Market st., Phila.
 Italian Marble Mosaic Co., 433 Spruce st., Phila.
 Roman Mosaic and Tile Co., 435 Green st., Phila.
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 Pearce Fireproof Co.,.....1345 Arch st., Phila.
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 Real Estate Trust Bldg., Phila.
- Mill Supplies.**
 The Fairbanks Co.,.....7th and Arch sts., Phila.
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 Felton, Sibley & Co.,.....136 N. 4th st., Phila.
- Pipe Fittings and Valves.**
 The Fairbanks Co.,.....7th and Arch sts., Phila.
- Plumbing Fixtures.**
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 James A. Vogel Co.,.....Wilmington, Del.
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- Preservatives (Wood and Concrete).**
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 Commercial Trust Bldg., Phila.
- Weather Strip (Metal).**
 Diamond Flexible Metal Weather Strip Co.,
 Geo. R. C. Johnston.....Drexel Bldg., Phila.
 S. B. MacDowell & Son,
 1927 Montgomery ave., Phila.
- Window Screens.**
 S. B. MacDowell & Son,
 1927 Montgomery ave., Phila.
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 Audubon Wire Cloth Co., Inc., Audubon, N. J.

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Capital
\$4,000,000



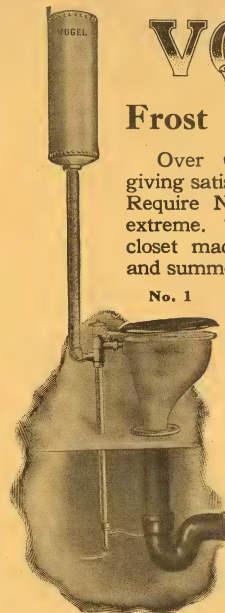
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Vol. XXXII., No. 41
October 10, 1917

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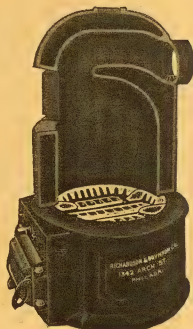
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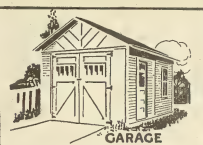
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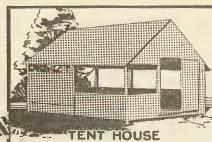
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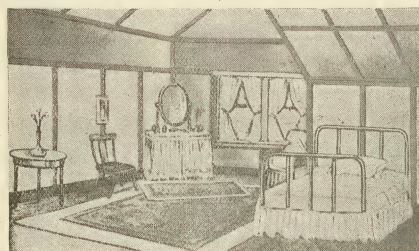
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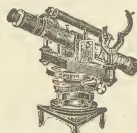
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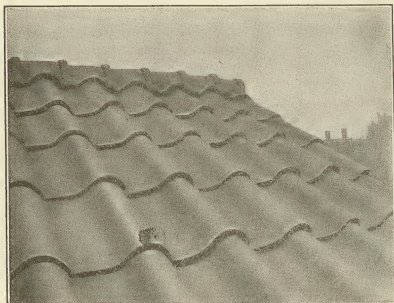
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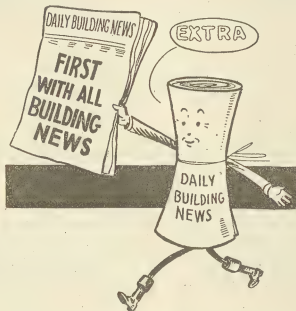


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
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VOLUME XXXII
Number 41

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October 10, 1917

BUILDERS' GUIDE

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The Philadelphia Real Estate Record
and Builders' Guide

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As The Editor Sees It



THE problem of providing in congested centers, for the thousands of industrial war workers engaged in supplying material to the government and its allies has finally reached an acute stage. Commenting upon the condition which is to be met, the Philadelphia *Bulletin* remarks:

"A little bill for \$100,000,000—just as a starter—is put in by the Housing Committee of the Council of National Defense to erect homes for war workers in congested centers. Conditions were bad enough before we entered the war, but now are rapidly becoming worse owing to new contracts for enormous quantities of material let by the Government. In some sections the need is not great, but in others, where practically new industries are springing up over night in villages or small cities, it is becoming more difficult to care for employees than to secure them.

"If we assume that \$1,000 an individual would be sufficient to secure a roof, the sum asked for could care for only 10,000 men, and this is far less than the demand. To some extent corporations engaged in manufacturing are helping to meet the situation, but find it embarrassing. They have no idea what will be the value of these buildings when the war is over, and so far have been counting much or all of the cost as an overhead charge. One or two large corporations engaged in making munitions for the Allies became greatly embarrassed by this outlay.

IT costs about \$160,000,000 to build the pine shacks for our soldiers in camp, but this sort of construction will not be allowed in most sections where fire laws are strict. What makes the situation worse is the lack of labor to erect the new homes when the money is ready. A special committee is working on the problem and will report to the President this week. We cannot expect good work from homeless men, but once we are embarked on a policy of housing laborers, no one knows where it will end or what will be the result on real estate values in many parts of the country.

"In 1910 Detroit had a population of 465,000 and now claims double that number, due in great part to increase of manufactures incident to the war. This shows how our population shifts and that we have before us a serious problem at a time when speed is of the very essence of our war program."

* * *

GEORGE GRAY BARNARD, the sculptor, at the instigation of Charles P. Taft, modelled a statue of Abraham Lincoln that occupies a prominent place in Cincinnati. Artistically, the Cincinnati Lincoln is said to be a tour de force. Realistically, it is pronounced a brutal and unsympathetic rendering of the personality of the great liberator. The suggestion that a duplicate of the Cincinnati statue be made for a site near Westminster Abbey in London elicited a veritable storm of protest. It

appears that as a model for his Lincoln Barnard employed a work-gnarled, vividly seamed and unprepossessing rail-splutter, with the result that the finished work presents a Lincoln all hands and feet and lacking in most of the qualities of spirituality and tenderness for which the great war President was noted. How Robert Lincoln, only son of the great man, feels on the subject of the Barnard conception is revealed in letters published in a recent issue of the *Art World*. The first of these letters written by Mr. Lincoln in response to one addressed to him by Mr. Ruckstuhl is as follows: Hildene, Manchester, Vt., Sept. 16, 1917. F. Wellington Ruckstuhl, editor of the *Art World*, New York, N. Y.

My Dear Mr. Ruckstuhl—In reply to your suggestion that I should send you for publication a letter of protest against the erection in London and in Paris of the Barnard statue of my father, I find myself in difficulty owing to the vigor and fullness of your own articles in the June and August issues of the *Art World*. I have already expressed to you my deep sense of gratification that you have so earnestly dealt with this miserable affair, from both artistic and public points of view, and I can think of nothing to add in those regards. But, as you did not know my own personal feeling and opinion when you kindly sent me your published articles, and think that there are others who might care to know them, I am sending you a copy of a letter written by me to President Taft as

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**BLUE
PRINTS**

soon as I heard of the London and Paris projects. I send also copies of letters giving the views of three gentlemen peculiarly able to express a personal opinion for reasons I indicate in notes appended to the copies. These you are at liberty to use as you may think proper.

Renewing my thanks to you for the helpful part you are taking in my efforts, believe me, very sincerely yours,

ROBERT LINCOLN.

THE letter to former President Taft to which Mr. Lincoln refers in the foregoing communication to Mr. Ruckstuhl is also given:
1775 N street, Washington, D. C., March 22, 1917.

My Dear Mr. President—I am writing to ask your consideration of a matter which is giving me great concern and to bespeak such assistance as you feel able to give me.

When I first learned through the newspapers that your brother, Charles P. Taft, had caused to be made a large statue of my father for presentation to the city of Cincinnati I very naturally most gratefully appreciated the sentiment which moved him to do this; when, however, the statue was exhibited early this winter I was deeply grieved by the result of the commission which Mr. Taft had given to Mr. Barnard. I could not understand, and still do not understand, any rational basis for such a work as he has produced. I have seen some of the newspaper publications inspired by him, one of which, printed in the *North American*, of Philadelphia, in November, and another in the *Literary Digest* for January 6 last, attempt to make explanations which are anything but satisfactory, to me at least. He indicates, if I can understand him, that he scorned the use of the many existing photographs of President Lincoln, and took as a model for his figure a man chosen by him for the curious artistic reasons that he was 6 feet 4½ inches in height, was born on a farm fifteen miles from where Lincoln was born, was about 40 years of age and had been splitting rails all his life.

The result is a monstrous figure, which is grotesque as a likeness of President Lincoln and defamatory as an effigy.

I understand that the completed statue has gone to Cincinnati to be placed. As to that I have nothing more to say, but I am horrified to learn just now that arrangements are being made for a statue of President Lincoln by the same artist, and I assume of a similar character, to be presented for location, one in London and one in Paris. I understand also that these statues are to be gifts by Mr. Taft. I do not think I have ever had the pleasure of meeting him, and I am, therefore, venturing to beg you on my account to intercede with him, and, if possible, to induce him to abandon his

purpose, if it is true that he has it in mind. I should, of course, have filial pride in having a good statue of my father in London and in Paris, of a character like the two great statues of him made by Augustus Saint-Gaudens, and that which I have good reason to expect in the Lincoln Memorial; now being modeled by Daniel Chester French. That my father should be represented in those two great cities by such a work as that of which I am writing to you would be a cause of great sorrow to me personally, the greatness of which I will not attempt to describe.

Believe me, my dear Mr. President, always sincerely yours,

ROBERT LINCOLN.

The Hon. William Howard Taft.

THE question at issue is one as to whether the sculptor is required to consider the factor of fidelity to his original in works of the kind. To that question the answers, we imagine, will vary somewhat widely.

UNDER the heading, "A Controversy in Bronze," the question is thus summed up by the *Philadelphia Public Ledger*:

"When Horace said that he would raise a monument more lasting than bronze and more regal than the pyramids he indicated a quality about a work of art that is a distinct detriment in case it is not of the most impeccable conception and execution. For the very permanency of the appeal becomes a continuous source of irritation from generation to generation. This in a nutshell is the trouble with the proposition to erect in London a duplicate of the Lincoln statue by George Gray Barnard now in Cincinnati by the grace of Charles P. Taft. For whatever merits this statue of Lincoln may have, and it undoubtedly possesses some qualities that an interpretative statue should have, it will be and is to-day a controversy in bronze, a contentious challenge to all those who knew and those who love the memory of the martyr President. As such it is certainly not worthy of indefinite repetition in public places here or abroad, where its reason for existence in this controversial form will not be understood.

"The very men who praise the Barnard conception rather give the case away in this issue of perpetuating it in London in the square near Westminster Abbey and the Parliament buildings, since they admit that it has rough-and-ready qualities that are far beyond either the family's conception of the Man—Robert T. Lincoln's, for instance—or the generally accepted embodiment of Lincoln familiar in the poetically studied figure of Saint Gaudens, which, if idealized, at least does not deliberately go out of the way to invent new attributes for a well-

known figure, which Barnard very frankly admitted that his study does. Indeed, he makes no bones about telling us in that Barnardesque manner which all who have sat at the feet of his Capitol statutory know so well that he took his idea from a native rail-splitter who apparently looked no more like Lincoln than any other uncouth figure broken by work on a farm would.

THE use of the living model is, of course, a commonplace of the sculptor's art, but the Barnard obsession over the model seems to have been the cause that led to the huge feet and coarse shoes and the so-called 'slouchiness' of pose that those who are averse to seeing the statue set up in London object to. This attitude may be taken without denying that Barnard was working out a legitimate problem in his Lincoln and that he has solved it in his customary dashing and brilliant manner. But while the problem may be one that can be left to an American community—Cincinnati in this case—to discuss and dispute *ad libitum*, it is not the kind of thing to fling in the faces of those foreign to our ideals, our heroes and our art."

THE estimated cost of buildings for which permits have been issued in Philadelphia during the last month, according to William G. Gamble, statistician of the Bureau of Building Inspection, amounted to \$2,252,765. This in comparison with the month of August shows an increase of \$698,650, and in comparison with the corresponding month of the previous year it shows a decrease of \$1,048,545. The following shows the character of the same:

Character.	Opera-tions.	Estimated Cost.
Dwellings, one story . . .	1	\$2,800
Dwellings, two story . . .	56	179,150
Dwellings, three story . .	11	72,500
Tenement houses	1	30,000
Manufactories	8	514,460
Workshops	6	33,700
Garages	62	111,255
Office buildings	5	82,550
Stores	3	57,300
Warehouses	3	57,000
Engine & boiler houses . .	1	800
Powerhouse	1	31,000
Depot	1	50,000
Places of amusement . .	1	280,000
Miscellaneous buildings .	10	30,025
Additions	121	439,320
Alterations and repairs .	183	177,345
Miscellaneous work . . .	82	76,190
Heaters	11	13,740
Fire-escapes	3	2,450
Signs	8	1,180

Totals 578 \$2,252,765
The estimated cost of all buildings for which permits have been issued for the

nine months ended September 30 amounted to \$29,523,465. In comparison with the corresponding period of 1916 it shows a decrease of \$6,395,270.

* * *

THE labor situation is disquieting in all parts of the country, and but for the good crop yield, which gives promise that food-stuffs will not generally go above present levels, it would be alarming. It is not surprising that with high prices prevalent on all sides wage-earners should claim more pay, but the disquieting thing is that higher wages mean still higher prices, and thus we travel in a circle, comments the market review of the National City Bank of New York City. At last the explanation is that the country is trying to do more work than there is labor to do it with. A vast amount of work is being done under rush conditions for the government, and the contractors have offered wages that would bring labor out of the regular industries. Sixteen cantonments have been built in different parts of the country at a cost of \$150,000,000, in three months, and about 8,000 to 10,000 workmen have been employed on each. The influence of this upon the labor situation has been widespread. Numerous shipyards are under construction, steel works and munition plants are crowded with orders and hundreds of new coal mines are struggling to get a share of the labor supply. The point has been reached where it is a serious question whether any further construction work should be done unless directly required by the war emergency. Where is the use in enlarging capacity when the present capacity of the industries cannot be manned. It may seem to an individual that he can enlarge his business profitably, but if he can only operate the new capacity by hiring labor away from other equally important work there is no gain, and the entire level of costs is being constantly raised by this process. It is reported that the government in some instances has taken steps to prevent its contractors from hiring labor away from each other, where all were working on a cost plus percentage basis, but something like that competition is occurring all around the industries. A movement to check it would probably be resented by the wage-earners, and like all price-fixing is open to serious objections. The real remedy all around is indicated by the high wages and prices: it is for the public to curtail consumption, in order that labor may be released for the war work.

* * *

THE United States Steel Corporation has led off with another wage advance of 10 per cent., and the other steel companies are following.

The coal miners, with whom a liberal settlement was made in April, are insisting upon another advance. The cost of living is not higher than it was in April, but the wages paid in other industries make the miners discontented; moreover, it is said that a shortage of cars, cutting down the working time is a grievance.

In the textile industries of New England a movement is on for a further round advance in wages.

The railway trainmen achieved a great victory last March by establishing the unit eight-hour day in train service. Train runs have remained practically unchanged, because they could not be changed except by moving division points or running lighter trains, which would increase costs more than the pay-

ment of overtime. The effect, as predicted, has been to add greatly to the overtime. It is understood that further requests from the trainmen are in preparation.

The final effect of this situation in the manufacturing industries is to constantly attract labor from the farms, thus curtailing the food supply, enhancing the cost of living in the cities and seemingly furnishing a reasonable basis for further demands by the wage-earners. We say "seemingly" because it is evident that at some point in this circle an influence should develop for the return of workers to the farms. Raising wages in the cities will never compensate for declining supplies of foodstuffs, if the higher wages continue to draw labor from the farms.

EDITORIAL NOTES

Los Angeles is one of the best examples of cities that are trying to protect their fine residential districts by means of ordinances forbidding certain industries within these residential areas. The entire city, with the exception of a few suburbs, is divided into industrial and residential districts. In the former areas all kinds of business and manufacturing are permitted; in the latter the ordinance forbids the carrying on of any kind of business or industry that would properly be regarded as objectionable in a residential area.

* * *

Harry Hahn, formerly with the Nazareth Cement Company, is now associated with the John P. Kane Company, 103 Park avenue, New York City.

* * *

What is designated as "Model Labor Colony" is being started on Staten Island by the Weymar Lumber Company in connection with the new \$2,500,000 garbage disposal plant that is being placed in operation. The colony is designed to house the working classes of this plant and other large industrial establishments in the vicinity. Work will be commenced at once on the construction of a number of cottages of five rooms each, equipped with running water, electric light, bath and toilet facilities, steam heat, etc. There will also be erected a large dormitory to accommodate single men and a restaurant for feeding the entire community.

* * *

Frank L. Patterson & Co. and Benjamin F. Kelley & Son, water heating engineers and manufacturers of heaters, announce a combination of interests under the name of the Patterson-Kelley Company, with offices at 26 Cortlandt street, New York.

* * *

If no more tangible benefit accrues the recent announcement of a fixed price for steel products has at least had an excellent psycho-

logical effect on the building trades. For a lengthy period the natural progress of the building industry has been impeded by the admittedly high prices of structural materials. Fabricated steel was one of the principal commodities for which an excessive price was charged, and the prime factor responsible for the withholding of important structural projects from an immediate start. With the price of steel regulated there remains practically only one great difficulty—delays in delivery—to be surmounted before building activity can return again to the volume of normal times.

* * *

Standard Asphalt and Refining Co., of Chicago, Illinois, has purchased the plants, trade marks and good will of the Sarcro Petroleum Products Company. The Cities Service Company, of 60 Wall street, New York City, is the new interest in back of this company, although the management remains essentially the same as before the change.

* * *

Work on the construction of the subway delivery loop that will encompass the central business section of Philadelphia has begun by the Keystone State Construction Company. With a corps of men on the job and derricks and other equipment on hand, ground was broken at three points in the line of the proposed loop. These points are at Eighth and Locust streets, the north side of Arch street east of Thirteenth street and west of Tenth street.

The delivery loop, regarded as the key to the entire high-speed transit system, will run from Broad and Arch streets under Arch street to Eighth street, under Eighth street to Locust street and under Locust street to Broad street. The estimated cost of the loop is approximately \$7,000,000.

* * *

The legs of the loop for which the Keystone State Construction Company has the contract

and on which work was begun, are Locust street from Eighth to Broad street and Arch street from Eighth to Broad street. The Eighth street contract, covering the construction of the loop from Arch to Locust street, was awarded to Smith, Hauser & MacIsaacs, Inc., of New York, but that firm withdrew its bid, saying that the cost of labor and material had risen since the original award of the contract, making it impossible for them to do the work. Bids for the work will shortly be re-advertised. It is estimated that it will take three years to build the loop.

* * *

T. M. Avery, one of the New York City representatives of the Blaw-Knox Co., of Pittsburgh, has gone to the Pacific Coast to take charge temporarily of the San Francisco office of that company. Edwin M. Ornitz, its San Francisco representative, has joined the Engineering Corps as first lieutenant.

* * *

With the steel situation partially adjusted and the other deterrent factors being eliminated and conditions daily substantially improved, the local building situation is in a better shape than it has been for a long period. The labor market is somewhat easier, and now that the construction of army and navy cantonments is rapidly nearing completion, thousands of skilled and unskilled men will be released into other channels of building work. The scarcity of mechanics lately has been experienced to a marked degree, and it is predicted that the men coming from work on the cantonment construction will be readily absorbed for private building operations.

* * *

American Iron and Steel Institute will hold its autumn meeting at the Hotel Sinton, Cincinnati, October 26 and 27.

* * *

The building material market as a whole is rapidly settling down to a realization that an important part of the responsibility for improving building conditions rests with the manufacturers and dealers in materials and supplies. There is a growing tendency among these interests to assist matters wherever possible by a close co-operation, through which the general welfare of the industry will be augmented. Although as a class building materials have not been substantially lowered in price, there is a feeling of additional stability to the market that has brought with it a more optimistic attitude on the part of the majority of interests.

* * *

Quite a number of important structural operations have been held in abeyance pending the adjustment of steel prices, and now that these have been settled greater activity in the building line is looked for within a short space of time. The predicted renewal of building will not be confined to any one type of structure. All types will be represented, and it is thought by those well informed that the erection of numerous speculative and investment buildings will soon be started as a result of the improved conditions.

* * *

The development of the Delaware River front in Chester was furthered last week by the sale of two properties, which will result eventually in increased business along the river. One was a strip of about three acres sold by Edwin D. Glauser to the Chester Shipbuilding Company, and the other was bought by Edwin D. Glauser from the Philadelphia Electric Company, which had purchased the land as a site for the big power plant now in course of construction at another point along the river.

The shipbuilding company bought the site to allow for future development of its business. Mr. Glauser intends to bulkhead his land along the river front and to use it in connection with his lumber shipping business. His plans call for the building of a wharf of such size that millions of feet of lumber can be stored upon it. The land purchased by Mr. Glauser is about the last of the available river front sites within the limits of the city.

* * *

Reports filed with Director Datesman, of the Philadelphia Department of Public Works, show that \$1,437,488 have been spent in the last twenty months on the construction of main and branch sewers. The work has been done mainly under the supervision of Chief Albright, of the Bureau of Surveys. Chief Albright has also been in charge of the construction of the twenty-two bridges which the city has contracted for in the last twenty months. In this work the chief has been assisted by Jonathan Jones, of the Department of Public Work.

* * *

Crippled by losing many employees who have left the Electrical Bureau to occupy better positions elsewhere or to enter military service, Chief McLaughlin has been forced to ask private companies to assist the city in repairing police and fire signals in cases of emergency. Recently the situation became so acute that Chief McLaughlin appealed to the Philadelphia Electric Company, the Philadelphia Rapid Transit Company and telephone, telegraph and steam railway companies to assist the city, if necessary.

* * *

Architects and building contractors throughout this city, almost without exception, feel that the action of the Federal Government in regard to the regulation of steel prices was a decided step in the direction of encouraging a strong building movement. They freely state, however, that a fixed price will not of itself make an immediate revival of building possible. The question of the available supply, with prompt deliveries, enters in a large way into the existing building situation, and it is from the scarcity of materials and slow deliveries that the most difficulty is at present anticipated.

* * *

National Housing Association will hold its annual meeting at Chicago October 15-17, 1917. Headquarters, Hotel LaSalle. For information inquire of Lawrence Veiller, secretary, 105 East Twenty-second street, New York City.

Few contracts were awarded in Philadelphia last week on building construction work for industrial firms. A single transaction, however, that of the Philadelphia Electric Company's new power station at Beach and Palmer streets, was closed at an \$8,000,000 figure. Factory alterations at Randolph street and Columbia avenue, for McNeill & Co., will cost \$4,000. Another large deal was that for four buildings of the new Tacony Ordnance Company, at Tacony, \$500,000. Factory improvements at 1713 Sansom street, for the Quaker City Rubber Company, will total \$5,000.

* * *

National Municipal League will hold its twenty-third annual meeting in Detroit, Mich., November 21-24, with headquarters at Hotel Statler. For information address the secretary, Clinton Rogers Woodruff, 703 North American Building, Philadelphia, Pa.

* * *

Progress in erecting the new municipal pier at the foot of McKean street, on the Delaware River, has been so rapid that Director Datesman, of Public Works, will advertise for bids for the final completion of the work. The entire cost of construction of the McKean street pier will be \$1,719,000. This cost covers the item of \$200,000 for purchasing the land. The pier, which will be thrown open to the public on June 1, 1918, is included in the Southwark group of piers, one of which has been built at Catharine street, and a second at Christian street. The construction of these piers is a first step toward an integral system of railroad, pier and harbor service that will give this city a service unequaled anywhere in the world.

* * *

A fixed basic price for structural steel will be of little avail if there is no fabricated material to be obtained or if its delivery is impossible within a period of six months or more. If there could become assurance that the desired amount of structural steel would be forthcoming within a reasonable period after the contract is placed there undoubtedly would be a marked improvement in the building conditions, not only in the Metropolitan district, but throughout the entire country.

* * *

The **National Hardware Association** and the **American Hardware Manufacturers' Association** will hold their annual joint convention at Atlantic City, N. J., October 17-19, with headquarters for both associations at the Marlborough-Blenheim.

DEATH OF CLINTON W. SWEET.

The death is announced of Clinton W. Sweet, founder of the New York "Record and Guide," the "Architectural Record," "Sweet's Architectural Catalogue" and other publications of note in the building and architectural field. Mr. Sweet retired from active business pursuits in 1912, due to a nervous malady, and was in his 66th year. He was widely known and universally esteemed.

AIR COOLING SCHEMES FOR HOUSES

Dr. Alexander Graham Bell, Inventor of the Telephone, Describes Interesting Experiments Conducted by Him for Cooling the Air in His Home—Discoveries He Made in Applying Scientific Ideas to an Every-day Problem.

Speaking on the subject of "Prizes for the Inventor" before the graduating class of the McKinley Manual Training School in Washington, Dr. Alexander Graham Bell told the graduates about the experiments he had been conducting for cooling the air in his own home and emphasized the possibilities in this direction. This part of his address as published in the "National Geographic Magazine," is given herewith:

The problem of cooling houses is one that I would recommend to your notice, not only on account of your own comfort, but on account of the public health as well.

I have found one radical defect in the construction of our houses that absolutely precludes the possibility of cooling them to any great degree. You will readily understand the difficulty when you remember that cold air is specifically heavier than warm air. You can take a bucket of cold air, for example, and carry it about in the summer time and not spill a drop; but if you make a hole in the bottom of your bucket, then, of course, the cold air will all run out.

Now, if you look at the typical tropical houses, you will find that they are all open on the ground floor. Supposing it were possible to turn on a veritable Niagara of cold air into a tropical house, it wouldn't stay there five minutes. It would all come pouring out through the open places below and through the windows and doors. If you want to find your leakage places, just fill your house with water and see where the water squirts out!

I began to think that it might be possible to apply the bucket principle to at least one room in my Washington home, and thus secure a place of retreat in the summer time. It seemed to be advisable to close up all openings near the bottom of the room to prevent the escape of cold air and open the windows at the top to let out the heated air of the room.

Dr. Bell's Own Experiments.

Now, it so happens that I have in the basement of my house a swimming tank, and it occurred to me that since this tank holds water, it should certainly hold cold air; so I turned the water out to study the situation. The tank seemed to be damp and the sides felt wet and slimy.

I reflected, however, that the condensation of moisture resulted from the fact that the sides of the tank were cooler than the air admitted. Water vapor will not condense on anything that is warmer than itself, and it occurred to me that if I introduced air that was very much colder than I wanted to use, then it would be warming up in the tank and becoming dryer all the time. It would not

deposit moisture on the sides and would actually absorb the moisture there.

I therefore provided a refrigerator in which were placed large blocks of ice covered with salt. This was placed in another room at a higher elevation than the tank, and a pipe covered with asbestos paper was employed to lead the cold air into the tank.

The first effect was the drying of the walls, and then I felt the level of the cold air gradually rising. At last it came over my head. The tank was full, and I found myself immersed in cool air. I felt so cool and comfortable that it seemed difficult to believe that Washington stood sizzling outside. I climbed up the ladder in the swimming tank until my head was above the surface, and then found myself breathing a hot, damp, muggy atmosphere. I therefore speedily retreated into the tank, where I was perfectly cool and comfortable.

Guided by this experience, I tried another experiment in my house. I put the refrigerator in the attic and led the cold air downward through a pipe covered with asbestos into one of the rooms of the house. The doors were kept shut and the windows were opened at the top. The temperature in that room was perfectly comfortable, about 65 degrees F.

At that time the papers were speaking of some ice plant that had been installed in the White House and congratulated the President upon a temperature of only 80 degrees F. when the thermometer showed 100 degrees outside. At this very time I enjoyed in my house a temperature of 65 degrees, with a delicious feeling of freshness in the air. Even when the air had risen to the same temperature as the rest of the house, as measured by a thermometer, the room still felt cool, because the air was drier, thus promoting perspiration that cooled the skin.

Selling Cold Air in Paris.

In this connection I may say that there is a very interesting cooling plant in Paris, France, run by the Societe de L'Air Comprime. Very many of the cafes and restaurants in Paris have cold rooms for the storage of perishable provisions, and these rooms are cooled by compressed air supplied by this company.

The plant consists of large pipes laid down under the streets of Paris, with small branch pipes leading into the cafes and restaurants. At a central station steam engines pump air into the pipes and keep up a continuous pressure of from four to five atmospheres. As there are several hundred kilometers of these pipes under the streets of Paris, they form a huge reservoir of compressed air at the ground temperature.

In the cooling room of a cafe they simply

turn a little cock and admit the compressed air into the room. A gas meter measures the amount of air admitted and charges are made accordingly.

The compressed air, by its expansion, produces great cold, and the cooling effect is still further increased by allowing the air to do work during the process of expansion. Dumbwaiters, elevators, and even sewing machines are thus run very economically in connection with the system by means of compressed air engines.

Will Our Cities Be Artificially Cooled?

Now, it appears to me that this process might very easily be developed into a plan for the cooling of a whole city. You would simply have to turn a cock in your room to admit the fresh air.

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And therefore is
A goodly thing to try. —Ex.

It isn't enough to just advertise. There is competition these days in advertising, as in other things. You must make your advertising attractive. You must make it say something,—something definite, original and convincing. If you lack faith in your own ability to do this, let us do it for you. Give us the facts. Talk to us just as you would to a prospective buyer. That is the kind of talk that makes profitable advertising. We'll look after the verbal frills. That's our business.

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

Do you get "The Guide" regularly? You should. Better subscribe now, while you think of it, and keep in touch. The man who fails to get and to read carefully the trade paper of his chosen line, is missing a whole lot of valuable data that should be at his command.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Competitive plans wanted on Lu Lu Temple, to cost about one million dollars, to be built on Parkway, Philadelphia. Winner of competition will receive large monetary prize. For details consult W. Freeland Kendrick, Lu Lu Temple, Philadelphia.

Twin Residence, Sixty-third and Overbrook avenue, Philadelphia. Architect, private plans. Owner, Mrs. White, care of builder. Stone and brick, 2½ stories, 57x53 feet, slate roof, hot water heating, combination lighting, tile work, parquetry floor, wire work, pine floors. Owner taking bids, due October 8. Standard Const. Co., 1713 Sansom street, is figuring.

Hotel (alts.), Ninth and Chestnut streets, Philadelphia. Architect, private plans. Owners, Continental Hotel Co., Ninth and Chestnut streets, Philadelphia. Consists of new partitions, new bar fixtures and plumbing. Owners, care of Mr. Eckman, C. E., Ninth and Chestnut streets, taking bids, due October 10. In addition to those previously reported, Thos. Reilly, 1616 Thompson street; H. H. Wehmer, 1001 Lehigh avenue; John R. Wiggins Co., Otis Building; Lam Building Co., 1001 Wood street; E. E. Hollenback, Inc., 1804 Brandywine street, and Harry R. Rust, 724 Ludlow street, are figuring.

Factory and Garage (alt.), 522 Buttonwood street, Philadelphia. Engineers, Franklin & Co., Crozer Building, Philadelphia. Owners, The Craig Finley Co., 137 North Twelfth street, Philadelphia. Brick, concrete and steel, 3 stories, 62x80 feet, slag roof, steam heating, maple and concrete floors, metal lath, rolled steel sash, waterproofing. Engineers taking bids, due October 10th. H. E. Baton, 1713 Sansom street; F. L. Hoover & Sons, 1023 Cherry street; Barely White & Co., 1713 Sansom street; Ketcham & McQuade, 1029 Brown street; Wark-Yardley Co., 1737 Filbert street; J. Sims Co., 1125 Brown street, and Wm. Easterbrook, 146 North Fourth street; Metzger & Fisher, Otis Building; Geo. H. Frank, 1112 Cherry street, and F. Broome, 4003 Sansom street, are figuring.

Bank, 9 South Fifty-second street, Philadelphia. Architects, Peuckert & Wunder, 310 Chestnut street, Philadelphia. Owners, Guarantee Trust and Safe Deposit Co., 316 Chestnut street. Limestone, granite and brick, 1 story and basement, 15x67 feet, slag roof, hot water heating, electric lighting, tile and marble work, rolled steel sash and skylights, maple and tile floors, metal lath, wire work,

ornamental iron work. Architects have received bids.

Residences (16), Seventh and Chew streets, Philadelphia. Architect, private plans. Owner, Henry F. Bauer, on premises. Brick, 2 stories, slate and slag roofs, hot water heating, electric lighting, tile work, hardwood floors. Owner will build.

Garage, Office and Two Stores (alt. and add.), Twenty-sixth and Somerset streets. Architect, R. H. Pepper, 1808 North Seventh street, Philadelphia. Owner's name withheld. Consists of remodeling present building, brick, 1 story, roof ventilators, flush bulks, electric lighting, plumbing, cement and hardwood floors, metal ceilings, gasoline storage system. Plans about completed. Architect will be ready for bids October 10th.

Garage, Forty-sixth and Chestnut streets, Philadelphia. Architect, private plans. Owner, I. K. Davis, 2400 West Oakdale street, Philadelphia. Brick and steel, 1 story, 215x98 feet, slag roof, cement floors, steam heating, electric lighting, hollow metal skylights, fire doors. Owner has received sub-bids.

Buildings (7), Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, care of F. R. Harris, Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, galvanizing plant, 1 story, 61x122 feet; oxyacetylene generating plant, 1 story, 64x64 feet; engine house, 1 story, 69x140 feet; locker house, No. 1, 2 stories, 59x109 feet; locker house, No. 2, 1 story, 57x79 feet; two ramp toilets, 1 story, 15x67 feet, ready and slag roofs, cement floors, steam heating, electric lighting, rolled steel sash, fire doors, ornamental iron work, metal lath, safety treads, roof ventilators, wire work (plumbing reserved). Owners have received bids.

Saw Mill, Kiln and Lumber Shed, Venango street and Pennsylvania Railroad, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, A. Schoenhut Co., Adams and Sepvina streets, Philadelphia. Brick, steel and concrete, 1 story, 50x156 feet; 1 story, 41x58 feet; lumber shed, 53x112 feet; slag roof, cement floors, hollow tile, rolled steel sash (electric lighting and sprinklers reserved). Architect has received bids.

Residence (alt. and add.), 6314 Wissahickon avenue, Germantown. Architect, J. Horace

Frank, Real Estate Trust Building, Philadelphia. Owner, Frank B. Johnston, 6626 McCallum street, Germantown. Brick, 2½ stories, 35x11 feet and 16x24 feet, shingle roof, tile work (heating, plumbing and electric work reserved). Architect has received bids.

Office Building, Garage, Stable and Shed, Tioga, Livingston and Almond streets, Philadelphia. Architect, Maurice Golden, Crozer Building, Chester, Pa. Owners, Joseph Hyman & Sons, on premises. Brick, 1 story, 120x204 feet, slag roof (steam heat reserved), electric lighting, pine and cement floors, hollow metal skylights, gasoline storage system. Plans in progress.

Residence (alt. and add.), 6314 Wissahickon avenue, Germantown. Architect, J. Horace Frank, Real Estate Trust Building, Philadelphia. Owner, Frank B. Johnston, 6626 McCallum street, Germantown. Brick, 2½ stories, 35x11 feet and 16x24 feet, shingle roof, tile work (heating, plumbing and electric work reserved). Architect has received bids.

Quarters for Radio Operators, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, 2 stories, 55x27 feet, asbestos shingle roof, tin roof, hot water heating, electric lighting. Low bidders: W. O. Springer, Item No. 5, \$14,664, time 105 days; item No. 6, \$15,044, time 105 days. Hogg Const. Co., item No. 5, \$15,070, time 150 days; item No. 6, \$15,422.50, time 150 days.

Toilet Building (alts.), Ninth and Westmoreland streets, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Surpass Leather Co., on premises. Consists of painting, plumbing and tile work. Architects taking bids, due October 10th. Philip Haibach Const. Co., Twenty-sixth and Thompson streets, and George Kessler Const. Co., Drexel Building, are figuring.

Garage, 6131-47 Cedar avenue, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owners, Berman Bros., 6019 Market street, Philadelphia. Brick, stone foundations, 1 story, 120x112 feet, ornamental brick front, slag roof, steam heating, electric lighting, cement floors, reinforced concrete work, hollow metal skylights, metal ceiling (gasoline storage system reserved). Owners taking sub-bids on all lines.

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534, 4 buildings, 4604 Frankford avenue, 4679-81 Frankford avenue, 4269-71 Frankford avenue and 4270-72 Frankford avenue. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick and concrete, 2 stories, five ply slag roofs, cement granolithic floors, mill work, roof ventilators, metal ceilings, tile and marble work, rolled steel and hollow metal sash, ornamental iron work (electric work and plumbing separate bids). Owners will be ready for bids in one week.

Apartment House, West Philadelphia, \$150,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick and terra cotta, stone foundations, 4 stories, 50x180 feet (40 apartments, 2, 3 and 4 rooms and bath), slag roof, hot water heating, combination lighting, electric wiring, hardwood and parquet floors, tile and marble work, roof ventilators, fire doors, 2 fire towers, ornamental iron work. Plans in progress.

Dispensary Building, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Department of Yards and Docks, P. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 2 stories, 36x86 feet, slag roof, composition floors, steam heating, electric lighting, tile and marble work, metal lath, roof ventilators, waterproofing, wire work. Owners taking bids, due October 22nd. Metzger & Fisher, Otis Building; F. L. Hoover & Son, 1023 Cherry street; F. W. Van Loon, Denekla Building;

Warren-Moore Co., Colonial Trust Building; John V. Speth & Co., 1714 Sansom street; George & Borst, 277 South Eleventh street, and McCloskey & Bahls, 1620 Thompson street, are figuring.

Passenger Station, Waiting Room and Platform, Highland avenue, Chestnut Hill, Pa. Architect, A. C. Shand, C. E., 607 Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Brick and stone, reinforced concrete and stucco, 1 story, 56x32 feet, and 1 story, 32x8 feet; platform, 368 feet long, tile roof, steam heating, electric lighting, terrazzo and marble work, rolled steel skylights, cement floors, metal lath, wire work, ornamental iron work. Owners taking bids, due October 17th, at 11 A. M. A. L. Carhart, Hale Building; Specht & Sperry, Heed Building; J. Sims Wilson Co., 1125 Brown street; E. C. Durell, 1713 North Twenty-fourth street; John N. Gill & Co., Otis Building; Royhouse-Arey Co., 112 North Broad street; Brann & Stuart, Commercial Trust Building; Chas. Wm. Doll Co., 201 North Broad street; Wark-Yardley Co., 1737 Filbert street; P. A. Havens & Co., 845 North Nineteenth street, and Pringle Borthwick, 8018 Germantown avenue, are figuring.

Garage, 224 Arch street, Philadelphia. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, Chas. McNamee, care of architects. Brick, 1 story, 51x130 feet and 51x88 feet, slag roof, cement floors, steam heat, electric light, hollow metal sash and skylights, roof ventilators, wire work. Architects have received revised bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hotel and Restaurant (remodeling), 215 S. Broad street, \$40,000. Architect, Richard C. Loos, 1017 Chestnut street, Philadelphia. Owner, Daniel J. Kopp, 5355 Baltimore avenue, Philadelphia. Brick, stone and steel, 4 stories and basement, 20x98 feet, tin roof (heating and electric work reserved), 2 elevators, cement floors, tile, marble and terrazzo work, metal lath, hollow metal skylights, roof ventilators, iron stairs, ornamental iron work. Contract awarded to Raith Const. Co., 304 West Master street, Philadelphia.

Store (add.), 326 South street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, George Orlovitz, care of Louis Orlovitz, on premises. Brick and stone, 1 story, 20x57 feet, slag roof, electric lighting, hollow metal skylights and doors, metal lath, cabinet work, modern

plumbing. Contract awarded to Bierns & Cylinder, 528 Mifflin street, Philadelphia.

Garage 1137 Frankford avenue, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, John D. Williamson, 1134 Shackamaxon street, Philadelphia. Brick, 1 story, 19x30 feet, slag roof, electric lighting, cement floor, gasoline storage system, plumbing. Contract awarded to P. Haibach Const. Co., Twenty-sixth and Thompson streets, Philadelphia.

Office and Bakery, 1449 North Twelfth st., Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Philadelphia Home-made Bread Co., on premises. Brick, 3 stories, 13x40 feet, slag roof, pine and composition floors, hollow tile, metal lath, rolled steel sash (heating, plumbing and lighting reserved). Contract awarded

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"Personal Attention from
Foundation Walls to
Interior Trim."

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AWARDING A CONTRACT

to Thomas C. Trafford, 1613 Sansom street,
Philadelphia.

Mill, Kiln Building and Boiler House, Fifty-seventh, Fifty-eighth and Gray's avenue, \$83,000. Architect, private plans. Owners, Unit Construction Co., Thirty-first and Chestnut streets, Philadelphia. Reinforced concrete and brick, 3 stories, 80x240 feet; 1 story, 60x60 feet, and 1 story, 26x36 feet; slag roof, concrete, maple and pine floors, steam heating, rolled steel sash and skylights, fire doors, elevators, roof ventilators. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

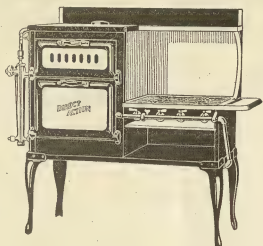
Stores (alts.), 2324-26-28 Market street, Philadelphia, \$2,200. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owner, Atlee Douedre, 103 Walnut street, Philadelphia. Consists of general interior alterations, new partitions, painting, mill work, etc. Contract awarded to Frank S. Coffin, 24 South Fortieth street, Philadelphia.

Residence (int. alts.), 1211 Sixty-eighth avenue, Oak Lane, Philadelphia. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owner, H. D. Clapp, 834 North American Building, Philadelphia. Consists of general interior alterations and additions, hardwood floors, lighting extension. Contract awarded to John H. Dagny, Sixty-ninth avenue and Oak Lane avenue, Oak Lane, Philadelphia.

Club House (alt. and add.), 1317 Spruce street, \$3,000. Architect, W. L. Place, 1208 Chestnut street, Philadelphia. Owners, Engineers' Club, on premises. Brick, 1 story addition, tin roof, oak floors, metal lath (electric work, fixtures and decorating reserved). Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Nurses' Home (add.), Fifteenth street, above Race street, Philadelphia, \$26,000. Architect, private plans. Owners, Hahnemann Hospital, on premises. Brick and reinforced concrete, fireproof, 6 stories and basement, 38x21 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash, cement and pine floors, metal lath, metal weather strips, dampproofing. Contract awarded to Sutton & Stephenson, 1317 Washington avenue, Philadelphia.

Storage Building (alt.), 429 Spruce street, Philadelphia, \$3,000. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia.



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725-26 Commercial Trust Building, Philadelphia

phia. Owners, M. Feitelson & Son, on premises. Brick, 3 stories, consists of general interior alterations, carpenter and mill work, plumbing, electric lighting, pine boars, plastering, office partitions, metal ceilings. Contract awarded to Jacob Bender, 1817 South Fourth street, Philadelphia.

Stores (int. alt.), 30-32-34 South Sixth st., Philadelphia. Architect, Wm. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owners, L. H. & J. H. Warren, Lafayette Building, Philadelphia. Brick, light iron work, plumbing and sheet metal work, pine floors, fire doors (heating, electric work and elevator

reserved). Contract awarded to Wm. Easterbrook, 136 North Fourth street, Philadelphia.

Hospital (alt. and add.), Nineteenth and Spring Garden streets, \$60,000. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owners, Philadelphia Osteopathic Hospital, care of Dr. J. Ivan Dufur, Pennsylvania Building, Philadelphia. Brick and concrete, brownstone trim, 3 stories, 50x110 feet, slag roof, concrete floors (steam heating and elevator reserved). Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

PENNSYLVANIA

Construction News

Residence, Quarryville, Pa. Architect, J. B. Harman, 48 North Queen street, Lancaster, Pa. Owner, Dr. E. C. Helm, care of architect. Hollow tile and stucco, 2½ stories, 36x40 feet, Spanish tile and asbestos shingle roof (hot water heating, plumbing, fixtures and electric fixtures reserved), electric lighting, tile work, yellow pine floors, hollow tile. Architect taking bids. George Bachman, Woolworth Building, Lancaster, Pa., is figuring.

Office Building (add.), Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Bearings Co. of America, Harrisburg and College avenues, Lancaster, Pa. Brick, 1 story, 36x120 feet, composition roof, pine floors, electric lighting. Plans about completed. Owners will take bids in a week or ten days.

Lodge Building, York, Pa. Architect, G. Frank Whitman, City Bank Building, York, Pa. Owners, Knights of Malta, care of architect. Brick, 2 stories, 103x41 feet, steam heat-

ing, electric lighting, composition roof, maple floors. Sketches completed.

School, Junior High, Nineteenth and Chestnut streets, Harrisburg, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, City of Harrisburg, care of School Board, 121 Chestnut street, Harrisburg, Pa. Brick, 3 stories, 170x190 feet, composition roof, steam heating, electric lighting, tile work, hollow tile, metal lath, hollow metal skylights, fire doors. Plans in progress. Owners will take bids in about three weeks.

Garage, Fulton, Fourth and Dauphin streets, Harrisburg, Pa. Architect not selected. Owners, Harrisburg Auto Co., Hamilton and Susquehanna avenue, Harrisburg, Pa. Concrete, 1 story, 100x210 feet. Work contemplated.

Store Room (alt. and add.), Steelton, Pa. Architect, R. R. Markley, Patriot Building, Harrisburg, Pa. Owner, Henry Claster, Harrisburg, Pa. Brick, 3 stories, 30x100 feet, slag roof, maple floors, metal bulks, elevator, metal

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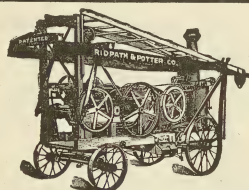
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ceilings. Owner taking bids, due as soon as possible. H. A. Hiffle, Harrisburg National Bank Building; Strayer & Eshelman, Seventh and Kelker streets, and Wm. Myers, all of Harrisburg, Pa., are figuring.

Garage, Strawberry and Calvin streets, Harrisburg, Pa. Architect, R. R. Markley, Patriot Building, Harrisburg, Pa. Owner, Henry Claster, Harrisburg, Pa. Brick, 1 story, 100x150 feet, slag roof, cement floors, steam heating, electric lighting, gasoline storage system. Plans completed. Owner will take bids in one week.

Club House, Front and Treweek streets, Steelton, Pa. Architect, C. H. Kain, 310 Chestnut street, Harrisburg, Pa. Owners, Steelton Lodge, Loyal Order of Moose, 22 South Front street, Steelton, Pa. Plans in progress. Too early for details.

Garage and Boiler Room, Glenolden, Pa. Architect, private plans. Owners, H. K. Mulford Co. 438 South Thirteenth street, Philadelphia. Hollow tile and stucco, 1 story, 50x22 feet, asbestos shingle roof, cement floors. Owners will build.

Farm Buildings, near Chestnut Hill, Pa. Architect, Albert Carlson, Perry Building, Philadelphia. Owners, Carson College for Orphan Girls, Witherspoon Building, Philadelphia. Frame and hollow tile, 1 story. Barn, 184x152 feet; chicken house, 120x20 feet; shingle roofs, cement floors, electric lighting, roof ventilators. Architect taking bids, due October 15th. Jacob Myers & Sons Co., Witherspoon Building; Thos. Little & Son, 1713 Moravian street; A. L. Pretz & Son, Heed Building, Philadelphia; George Roth & Son, 230 East Graver's Lane, Germantown, and J. D. Lengle, Wayne, Pa., are figuring.

School, East Fallsfield Township, Chester Co., Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, East Fallsfield School Board, E. A. Phillips, secretary, East Fallsfield Township, Pa. Brick, 1 story, 8 rooms and auditorium. Plans in progress.

School, Sixth and Woodbine streets, Harrisburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners,

School Board of Harrisburg, Harrisburg, Pa. Brick, 2 stories and basement, 100x160 feet, composition roof, pine floors (steam heating, electric lighting and plumbing reserved). Plans in progress. Owners will advertise in two weeks.

Residence (alt. and add.), 710 North Sixth street, Harrisburg, Pa. Architect, R. R. Markley, Commonwealth Building, Harrisburg, Pa. Owner, Dr. Louis C. Goldman, on premises. Brick, interior alterations, 3 stories, 16x54 feet, slag roof, city steam heating, electric lighting, tile work, hardwood floors. Plans about completed. Owner will take bids.

Store and Dwelling, 935 Edgemont avenue, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Penn Realty Corp, Third and Edgemont avenue, Chester, Pa. Stone foundations, brick, 3 stories, 18x45 feet, tile and tin roof, hot water heating, combination lighting, tile and marble work, hollow metal skylights, metal bulks, hardwood and yellow pine floors, plastering. Plans about completed. Owners, care of Wm. H. Graham, Third and Edgemont streets, Chester, Pa., will be ready for sub-bids in about one week.

Store Building, Sixth and Sproul streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Senator W. C. Sproul & J. C. Taylor, Third and Edgemont streets, Chester, Pa. Brick, stone trim, 3 stories, 15x42 feet, slag roof, cement, mineral or tile floors, hot water heating, combination lighting, metal bulks. Owners, care of Wm. H. Graham, Third and Edgemont sts., Chester, Pa., will be ready for sub-bids in about a week.

School, Ashland Heights, Montgomery Co., Pa. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, superintendent of schools, Ardmore, Pa. Stone, hollow tile and stucco, or brick veneer, 1 story and basement, 106x180 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, metal lath, roof ven-

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tilators, metal weather strips, waterproofing, dampproofing, wire work, ornamental iron work (plumbing, heating, electric work and ventilating reserved). Architect has received revised bids.

Residence, Merion, Pa. Architect, Charles Barton Keen, Bailey Building, Philadelphia. Owner's name withheld. Brick, 2½ stories, 50x30 feet, shingle roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Mine Storage Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, brick and stucco, 1 story, 109x50 feet, asbestos shingle roof, pine floors, hollow tile, rolled steel sash. Owners taking bids, due October 15th. J. S. Rogers Co., Moorestown, N. J., additional bidder.

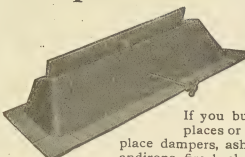
Residence (alt. and add.), Valley Forge, Pa., \$2,000. Architects, Durham Bros., Heed Building, Philadelphia. Owner, Morris A. Barr, Ardmore, Pa. Frame, sun parlors (2), 12x10 feet, tin and shingle roof, hardwood floors, electric lighting extension. Plans about completed. Owner will be ready for sub-bids in about two weeks.

Church, Ambler, Pa. Architects, Schermerhorn & Phillips, 430 Walnut street, Philadelphia. Owners, Upper Dublin Brethren Church, Rev. H. M. Garman, 4637 North Thirteenth street, Philadelphia. Stone, 1 story and basement, 44x80 feet, slate roof, electric lighting. Architects taking bids, due October 19th. P. I. Hoover & Sons, 1023 Cherry street; Henry P. Schneider, 3713 Old York road; W. John Stevens, Inc., Wyncote, Pa.; George W. Frankenhoff, Ambler, Pa.; Wm. D. Lukens, North Wales, and R. W. Neff, 6610 Germantown avenue, are figuring.

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Pennsylvania

Contracts Awarded

Store Building (alt.), Lancaster, Pa. Architect, private plans. Owner, Philip Lebzelter, Lancaster, Pa. Brick (general interior alterations), 4 stories, 60x120 feet, mill work, plastering, hardwood floors, elevators. Contract awarded to Ray Clark, Lancaster, Pa.

Barn, Harrisburg, Pa., \$25,000. Architect, J. A. Dempwolf, York, Pa. Owners, State Lunatic Asylum, care of Dr. Orth, Harrisburg, Pa. Reinforced concrete, 2 stories, 40x110 feet, slate roof, electric lighting. Contract awarded to Strayer & Eshelman, Seventh and Kelker streets, Harrisburg, Pa.

Open Air School, Harrisburg, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, Harrisburg, Pa. Brick, 1 story, 70x140 feet and 60x80 feet, composition and Ehret roof, pine floors. Contract awarded to Strayer & Eshelman, Seventh and Kelker sts., Harrisburg, Pa.

Garage, Front and Mulberry streets, Harrisburg, Pa., \$3,500. Architects, Kelker & Johnson, Calder Building, Harrisburg, Pa. Owners, Harrisburg General Hospital, Mr. Conden, on premises. Brick, terra cotta coping, 2 stories, 26x28 feet, slag roof, cement floors, steam heating, electric lighting, gasoline storage system, wire work. Contract awarded to J. F. Saussman, 1713 North street, Harrisburg, Pa.

Residence (alt.), Ridley Park, Pa., \$15,000. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owner, George C. Hetzel, Ridley Park, Pa. Brick and stone, new verandas, 2½ stories, slate roof, cement, oak and pine floors, tile work (heating and lighting reserved). Contract awarded to Pomerooy Const. Co., 1609 Ranstead street, who are taking sub-bids.

Monument and Vault, Westminster Cemetery, Barmouth, Pa. Architect, Carl P. Berger, South Penn Square Building, Philadelphia. Owner, Joseph Gaidins, care of American Brewing Co., Thirty-first and Master streets, Philadelphia. Granite, marble and brick, 14x17 feet, cement and slate roof. Contract awarded to Westminster Cemetery Co., 1409 Arch street, Philadelphia.

Residence, Laison avenue, Penfield, Pa., \$4,000. Architect, private plans. Owner, Wm.



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H. Emery, 114 South Fifty-fourth street, Philadelphia. Stucco on frame, 2 stories, 22x30 feet, slag roof, pine floors, hot water heating, electric lighting. Contract awarded to Milton S. Grawl, Bulletin Building, Philadelphia.

Residence, Valley Forge, Pa. Architects, Duhring, Okie & Ziegler, 1218 Chestnut st., Philadelphia. Owner, Mrs. John Lunkenheimer, 5121 Hazel avenue, Philadelphia. Stone and frame, 2 stories, 35x35 feet, shingle roof, hot air heating, electric lighting, pine floors. Contract awarded to Frank H. Shainling, Devon, Pa.

Garage, Bethlehem and Allentown Boulevard, West Bethlehem, Pa. Architect, C. E. Schermerhorn, 430 Walnut street, Philadelphia. Owner, A. Newton Roberts, Bethlehem, Pa. Hollow tile and plaster, 1 story, 23x29 feet, slate roof, hot water heating, electric lighting, cement floors. Contract awarded to Tilghman H. Moyer, Allentown, Pa.

NEW JERSEY

Construction News

Residence, Stone Harbor, N. J. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owner, Thomas E. Larsen, Stone Harbor, N. J. Frame, 2½ stories, 22x38 feet, shingle roof, electric lighting. Plans in progress. Architect will be ready for bids in about one week.

Garage, 224 Arch street, Philadelphia. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, Charles McNamee, care of architect, Brick, 1 story, 51x130 feet and 61x88 feet, slag roof, cement floors, steam heating, electric lighting, hollow metal sash and skylights, roof ventilators, wire work. Architects taking revised bids, due October 10th. Conneen Const. Co., 1737 Filbert street; Evans Const. Co., 9 South Eighteenth street; Hogg Const. Co., 1634 Sansom street, and Thomas C. Trafford, 1613 Sansom street, Philadelphia; Freund Const. Co., Bulletin Building, are figuring.

Factory (alt.), Camden, N. J. Engineers, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, Cleveland Worsted Mills, Camden, N. J. Concrete, basement underpinning and retaining walls, cement floors. Engineers taking bids, due October 8th. A. R. Raff Const. Co., 1635 Thompson street, Philadelphia; James W. Draper, 436 Haddon avenue; George Bachmann, 19 North Thirtieth street; Hensgen Bros., 1140 Mechanic street; John J. Welsh, 525 Clinton street; Wm. Wrixford, West and Mickle streets, and George F. West, 828 Broadway, all of Camden, N. J., are figuring.

Residence, Atlantic City, N. J. Architects, Druckenmiller & Williams, 1537 Chestnut st., Philadelphia. Owner's name withheld. Brick and plaster, 2½ stories, 34x70 feet, and wing, 19x20 feet, slate roof, hardwood floors, vapor heating, electric lighting. Plans about completed. Architects ready for bids in a few days.

Cafe and Dwelling (alts. and add.), Sixty-second and Walnut streets, Philadelphia. Architects, Milligan & Pierson, 520 Walnut st., Philadelphia. Owner, Wm. Meenehan, on

premises. Brick, 2 additions, 2 stories, 20x28 feet, and 1 story, 16x25 feet, slate roof, composition floors, hot water heating, electric lighting, hollow metal sash. Architects and owner taking bids, due October 10th. Raith Const. Co., 304 Master street; A. MacTavish, 1613 Pine street, are figuring.

Residence and Garage (alt. and add.), N. E. Cor. Harrisburg avenue and Thorofare, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Allan K. White, on premises. Brick and frame, 3 stories, 31x80 feet, slate roof, composition floors (hot water heating and electric lighting reserved), tile and marble work, elevator. Architect taking bids, due as soon as possible. C. D. Thompson, P. G. Hanum, Hampton Bros., W. S. Higbee, and C. P. Tilton, all of Atlantic City, N. J., are figuring.

Residence (alt. and add.), 35 North Pennsylvania avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South Carolina avenue, Atlantic City, N. J. Owner, David Brown, on premises. Frame (alt. brick), 1 story additional, hot water heating, electric lighting, hardwood and concrete floors, dampproofing. Owner taking bids, due as soon as possible. Harry Scull, Chas. Tilton, L. J. Brown, and Samuel Lippincott, all of Atlantic City, N. J., are figuring.

Dormitory, Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, New Jersey School for Deaf Mutes, State Board of Education, Capitol Building, Trenton, N. J. Brick, 3 stories, 135x110 feet, slag roof, composition and pine floors, steam heating, electric lighting, hollow tile, metal lath, metal weatherstrips. Architect taking bids, due October 29th.

Laundry, Vineland, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, Board of Managers, State Home for Feeble Minded Women, Vineland, N. J. Brick, 1 story, 40x86 feet, slag and slate roof, concrete floors, central plant steam heating, electric lighting, hollow metal skylights, roof ventil-

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ators. Architects taking bids, due October 29. **Girls' Dormitory Building**, Bordentown, N. J., \$25,000. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, Board of Managers, School for Colored Youth, Bordentown. Brick, 2 stories, 40x60 feet, slag roof, pine floors (steam heating, electric lighting and plumbing reserved). Architect taking bids, due October 23rd.

Concrete Retaining Walls, Iron Fence and Brick Paving, Trenton, N. J. Owners, City of Trenton, Department of Public Highways, Trenton, N. J. Architect, W. P. Endebrook, American Mechanics' Building, Trenton, N. J.

Factory (alt.), Twenty-first and Lippincott streets, Philadelphia. Architect, J. O. Hunt, 144 North Montgomery street, Trenton, N. J. Owners, Pierce Arrow Fire and Rubber Co., Germantown, Pa. Brick, 2 stories, steam heating, electric lighting, pine floors, hollow tile, elevators, hollow metal sash, fire doors. Plans completed. Architect will take sub-bids about November 1st.

Superintendent's Cottage, Sea Girt, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, State of New Jersey, Sea Girt, N. J. Clapboard, 2 stories, asbestos shingle roof, pine floors, electric lighting. Plans com-

pleted. Architect will be ready for bids in a few days.

Fire House, Egg Harbor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City Council of Egg Harbor, Egg Harbor, N. J. Brick, 2 stories, 35x81 feet, slag roof, pine floors, electric lighting, tile and marble work, metal ceilings. Mr. Morgenweck, City Clerk, Egg Harbor City, N. J., will advertise for bids, due October 24th.

Residence and Garage, Frankford avenue and Atlantic avenue, Ventnor, N. J. Architect, private plans. Owner, Horace Disston, Tacony, Philadelphia. Brick and frame, 2 stories, hot water heating, combination lighting, tile and marble work. Contract awarded to Hampton Bros., 4403 Atlantic avenue, Atlantic City, N. J.

Stable, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, R. C. Kolb, Trenton, N. J. Brick, 1 story, 30x70 feet, slag roof (hot water heating reserved), electric lighting, cement floors. Contract awarded to Chas. Smith, 63 Maple avenue, Trenton, N. J., for mason work, and to I. Harper Clayton, American Mechanics' Building, Trenton, N. J., on carpenter work.

son street, Baltimore, Md. Architect, private plans. Owners, American Propeller and Manufacturing Co., 233 East Hamburg street, Baltimore, Md. Concrete and steel, 1 story, 150x200 feet, slag roof, electric lighting, rolled steel sash. Owners taking bids, due as soon as possible. Price Concrete Const. Co., Maryland Trust Building, and C. E. Steubbs, Equitable Building, Baltimore, are figuring.

Garage, 3427 Greenmount avenue, Baltimore, Md. Architect, John K. Stack, 12 East Lexington street, Baltimore, Md. Owner, Jos. C. Smith, 2330 McElderry street, Baltimore, Md. Brick, 1 story, electric lighting, slag roof, cement floors. Plans in progress.

Maryland

Contracts Awarded

Bakery (alts.), 2820-22 Edmondson avenue, Baltimore, Md., \$1,000. Architect, Fred. E. Beall, 306 St. Paul street, Baltimore. Owner, Mrs. Sophia Hauswald, 2700 Edmondson avenue, Baltimore. Consists of new brick oven and general interior alterations. Contract awarded to Fred W. Felte, 319 South Pulaski avenue, Baltimore.

Building (alt. and add.), 216 North Liberty street, Baltimore. Architect, private plans. Owner, Eli Sheets, on premises. Brick, 4 stories, electric lighting, plumbing, plastering, painting. Contract awarded to C. Spicknall's Sons, 930 West Franklin street, Baltimore.

Residence, Hamilton, Md. Architect, private plans. Owner, Mrs. L. C. Schmidt, 1200 East Federal street, Baltimore. Frame, 2½ stories, 25x28 feet, shingle roof, hot water heating, electric lighting, plumbing, plastering. Contract awarded to Henry A. Knott, 2102 North Calvert street, Baltimore.

Garage, Union Stockyards, Baltimore, Md., \$8,000. Architect, private plans. Owner, D. B. Martin Co., Union Stockyards, Baltimore. Brick, 1 story, slag roof, concrete floors, rolled steel sash. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Machine Shop, Aliceanna and Spring sts., Baltimore, Md. Architect, private plans. Owners, E. J. Codd Co., 600 South Caroline street, Baltimore, Md. Brick, 1 story, 74x60 feet, slag roof, mezzanine floor, crane runways and cranes. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Office Building and Shop, Westport, Md. Consulting engineer, Herman F. Doelman, American Building, Baltimore. Owners, McNamara Bros., on premises. Brick, 1 story, 20x40 feet, and steel, 1 story, 70x100 feet, Carey roof, rolled steel sash, electric lighting. Contract awarded to J. L. Robinson Son Co., 218 East Lexington street, Baltimore, Md.

Ordinance Building, Woodberry, Md. Architect, Wm. H. Emory, Jr., Munsey Building, Baltimore. Owners, Poole Eng. and Machine Co., on premises. Brick, concrete and steel and glass, 1 story, 163x504 feet, slag roof, wood block flooring, steam heating, electric lighting, painting, plumbing, rolled steel sash, crane runways and cranes. Contract awarded to H. D. Watts Co., Garrett Building, Baltimore, Md.

Building (alts.), Paca and German streets, Baltimore, \$12,000. Engineer, private plans. Owners, Jos. H. Rayner Estate, Baltimore, Md. Lessees, Pittsburgh Plate Glass Co., on premises. Consists of general remodeling, electric elevator, strengthening floors, mill work,

MARYLAND

Construction News

Laboratory Building, Indian Head, Md. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel and concrete. Owners ready for bids, due October 15th.

Residences (11), west side of Park Heights

avenue, south of Gordon Lane, Baltimore, Md., \$17,000. Architect, private plans. Owner, Paul B. Mules, 21 Gunther Building, Baltimore, Md. Brick, 2 stories, slag roof, hot water heating, electric lighting. Owner will sub-let all contracts.

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etc. Contract awarded to Willard E. Harn Co., 213 North Calvert street, Baltimore.

Waiting Station, Overlea, Belair avenue, Baltimore, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore. Owners, United Railways and Electric Co., Continental Building, Baltimore. Frame and stucco, 1 story, 15x35 feet, slate roof, hollow metal sash, plastering, painting, plumbing. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore.

Police Station, Brooklyn, Md., \$11,000. Architect, H. C. Crisp, Calvert Building, Baltimore, Md. Owners, City of Baltimore, Department of Public Safety, Baltimore, Md. Brick, steel and concrete, stone trim, 2 stories, 29x50 feet, slag roof, electric lighting, interior slate work, dampproofing, plastering, painting. Contract awarded to C. E. Stubbs, Equitable Building, Baltimore.

Miscellaneous Construction News

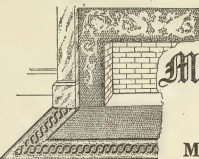
Show Room and Shop, Wilmington, Del. Architect, Roscoe C. Tindall, 904 Orange st., Wilmington, Del. Owners, Foss Hughes Co., Wilmington, Del. Stone and stucco, 2 stories, 100x150 feet, tile roof, pine floors, electric lighting. Revised sketches completed.

Dwellings (2), West Twenty-eighth street, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Samuel Baynard, West Twenty-eighth street, Wilmington, Del. Brick, 2 stories, 27x21 feet, slate roof, hot air heating, combination lighting, pine floors. Architect taking bids, due October 6th. P. Lynch, W. D. Hadcock & Co., J. E. Healy & Son, Chas. Bryce, and Joyce & Kerrigan, all of Wilmington, Del., are figuring. (53 residences contemplated.)

Ann, Borough of Richmond, Staten Island, N. Y. Architect, Thomas B. Lippincott, Stephen Girard Building, Philadelphia. Owners, Downey Shipbuilding Co., 44 Whitehall Building, New York City. Hollow tile and stucco, 2½ stories, 54x123 feet, asbestos shingle roof, steam heating, electric lighting, tile work, pine and maple floors, hollow tile, dumb waiters, roof ventilators, waterproofing and dampproofing. Architect taking bids, due October 16th. The following are figuring: Leonard H. Davis, 1329 Arch street, Philadelphia; Edw. Hurley, 85 West 181st street, New York City; H. Langworthy, Broad street, Stapleton, N. Y.; James McDermott, Broad street, Stapleton, N. Y.; Carlson Bros., Brighton Heights, Staten Island, N. Y.; George W. Leithgow & Sons, 79 King street, New York City; Workmen's Homes Co., 11 Bloomfield street; Passaic, N. Y.; John T. Simpson, 1225 Essex street, Newark, N. J., and John A. Lynch, 956 Castleton avenue, West Brighton, N. Y.

Residence, Warrenton, Va., \$30,000. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, S. S. Preston, Franklin Bank Building, Philadelphia. Stone, 2½ stories, 30x65 feet, slate roof, vapor heating, electric lighting, hardwood floors. Plans in progress.

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O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 1137 Frankford avenue, \$700. J. D. Williamson (O), 1134 Frankford avenue. Philip Hainback Const. Co. (C), Twenty-sixth and Thompson streets. Brick, 1 story, 18x24 feet, slag roof.

Garage, Malcolm and Fifty-fourth streets, \$300. Thomas McDougall (O), 1019 South Fifty-fourth street. C. W. Rogers (C), 237 South Forty-ninth street. Brick, 1 story, 10x15 feet, slag roof.

Dwellings (2), Mansion and Leverington avenue, \$4,000. Martin H. Keller, Jr. (O), 326 Dupont street. William E. Keller (C), 480 Harmon road. Stone and brick, 2 stories, 14x30 feet, slag roof, hot air heating.

Garage, 5850 Oscola street, \$1,000. M. H. McFinninly (O), 348 East Haines street. John H. Firth (C), 5817 Oscola street. Brick, 1 story, 74x18 feet, slag roof.

Garage, 3612 Frankford avenue, \$400. John Sherry (O and C), on premises. Brick, 1 story, 14x46 feet, slag roof.

Boiler House and Factory, Fifty-seventh and Gray avenue, \$83,000. Unit Const. Co.

(O), Philadelphia. John N. Gill & Co. (C), Otis Building. Brick, 1 story, 26x36 feet; brick, 3 stories, 240x80 feet, slag roof, steam heating.

Garages (18), 600-06 Luray and 601 to 13 and 607-15 Courtland street, \$3,200. Marco Marks (O and C), Bailey Building. Brick, 1 story, 12x16 feet, slag roof.

Dwelling, Montour and Cottman streets, \$3,150. William Ball (O), 3515 Joyce street. M. Stevens (C), 910 Fanshaw street. Brick, 3 stories, 15x40 feet, slate roof, hot water heater.

Stack, Shellmire and State road, \$600. Tacony Ordinance (O), Tacony. Curtis Bros. (C), Torresdale and Magee street. Foundation only, 22x22 feet, 20x20 feet, 18x18 feet, concrete.

Garage, 6403 North Eleventh street, \$500. Helen Luehman (O), H. Hope (C), 5901 York street. Brick, 1 story, 12x20 feet, slate roof.

Garage, 6500 North Eighth street, \$500. K. Fitzold (O), on premises. H. Hope (C), 5901 York street. Stone and brick, 1 story, 14x19 feet, slag roof.

Alterations and Additions

Factory, 1715 North Tenth street, \$500. J. E. Jastram (O), on premises. Smith-Hardican (C), 1606 Cherry street. Tank support, 20,000 gallons.

Shed, Thirteenth and Luzerne streets, \$1,500. H. C. Amber (O and C), 3717 Old York road. Open shed, 20x250 feet.

Engineer Club, 1317 Spruce street, \$3,000. Engineer Club of Philadelphia (O). Smith-Hardican (C), 1606 Cherry street. Brick, 1 story, 20x24 feet, alterations.

Children's Home, Ashbourn and Glenlock, \$2,000. Mrs. Walter S. Massey (O), Torresdale. N. K. Freas (C), Andulusa. Frame, 2 stories, 16x26 feet.

School, Fifty-fifth and Chestnut streets, \$115,400. Board of Education (O). Nineteenth and Chestnut streets. Warren Moore & Co. (C), Colonial Trust Building. Reinforce concrete, brick, 1 story and gallery, 75x24 feet, composition roofing, steam heating.

Dwelling, 608 East Girard avenue, \$400.

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Philip Haiback (O and C), Twenty-sixth and Thompson streets. Hot water heating boiler and radiators.

Garages (8), 608-22 Northeast Boulevard, \$1,280. Jacob Shenkman (O and C), 233 Duncannon avenue. Brick, 1 story, 14x20 feet, cement floors, slag roofing.

Dwelling, 2015 East Sergeant street, \$400. F. L. Thierer (O), on premises. F. Weindel (C), 1944 East York street. Brick, 1 story, 11x14 feet, slag roof.

Hospital, Girard avenue and Corinthian avenue, \$8,000. Laukman Hospital (O), Corinthian avenue. A. R. Raft Co. (C), 1635 Thompson street. Metal on iron frame, second story addition, 24x28 feet, copper roofing.

Houses, Beach street and Columbia avenue, \$1,300. Philadelphia Electric Co. (O), Tenth and Chestnut streets. Stone & Webster (C), Tenth and Sansom streets. Five temporary buildings, frame, different sizes.

Dwelling and Store, 1311 West Moyamensing avenue, \$2,800. W. E. Korb (O), 2532 South Watts street. W. J. Robinson (C), 1508 Lombard street. Brick, 2 stories, 17x16 feet, slag roof and alterations, skylight.

Store and Dwelling, 1408 North Second street, \$700. Louis Barres (O). M. Klemian (C), Eighty-fourth and Gibson avenue. Brick, 2 stories, 15x12 feet, slag roof.

Shop, 2224 Ellsworth street, \$300. Louis Nescoies (O and C), on premises. Extending to bulk.

Shop, 5428 North Palethorpe street, \$800. John E. James (O and C), 200 East Tabor road. Brick, 2 stories, 25x32 feet, slag roof.

Store and Dwelling, Twentieth and Christian streets, \$500. St. Charles' Parish (O).

Roger Atkinson (C), 405-06 Builders' Exchange. Alterations.

Dwelling, 15 South Broad street, \$10,000. Philadelphia Trust Co., trustee (O), 413-17 Chestnut street. Raith Const. Co. (C), 302 Master street. Alterations and new elevator shaft.

Dwelling, 1211 Sixty-eighth avenue, Oak Lane, \$500. Mary A. Clopp (O), 1211 Sixty-eighth avenue. John H. Dagney (C), York road and Sixty-ninth avenue. Alterations.

Storage, Belgrade and Tioga streets, \$1,600. C. F. Simmons Son (O), on premises. Harry Gill, Jr. (C), 2515 Germantown avenue. Brick wall replace frame.

Garage, 4331 North Darien street, \$600. F. T. Mann (O), 4332 North Eighth street. Ed. B. Miller (C), 4313 North Eighth street. Brick, 1 story, 14x22 feet, slag roof.

Warehouse, 928 North Third street, \$500. George Sachemier Co. (O and C), on premises. Alterations.

Dwelling, 6666 Lincoln Drive, \$300. J. T. Stuart (O and C), on premises. Porch enclosure.

Water Filtration, Bermuda and Wakeling streets, \$4,000. Barrett Co. (O and C), on premises. Steel frame, 1 story, 57x32 feet, Barrett roofing, concrete floors.

Machine Shop, Unruh and State road, \$2,000. H. Disston Sons Co. (O), on premises. D. Lutz (C), Bailey Building. Iron on iron, 1 story, 20x17 feet.

Factory, 417 Locust street and 900 Oxford street, \$1,650. American Foundry Co. (O), Bloomington, Ill. Fred Sabring Co., Inc. (C), 237 Broad street. Steam heating system.

Warehouse, 326 South street, \$2,500. Geo. Orliowitz & Son (O), 326 South street. Bierns & Cylander (C), 521 Mifflin street. Brick, 1 story, 20x41 feet, slag roof.

Garage, Germantown avenue and Bells Mill road, \$500. A. G. B. Steel (O), 8409 Navahoe avenue. H. P. Werner (C), 3245 Germantown

avenue. Hot water heating system and alterations.

Store and Dwelling, 3107 Kensington avenue, \$450. C. M. Wasson (O), 3021 Kensington avenue. H. P. Werner (C), 3245 Germantown avenue. Flush bulk and alterations.

Dwelling, 1217 West Huntingdon street, \$450. John M. Kleim (O), on premises. H. P. Werner (C), 3245 Germantown avenue. Fire repairs.

Store and Dwelling, 1414 North Second st., \$450. Charles Streff (O), on premises. Wm. Freiling (C), 2553 North Fifth street. Flush bulk.

Store and Dwelling, 1408-10-12 North Second street, \$1,350. James P. Mallon (O), 1408 North Second street. Wm. Freiling (C), 2553 North Fifth street. Flush bulk.

Club House, Broad and Spruce streets, \$990. Union League of Philadelphia (O), Broad and Sansom streets. J. Kisterback & Son (C), 2002-04 Market street. Three new heaters.

Chimney, Stenton and Rockland avenues, \$1,280. American Metal Works (O), Aomat and Hiskel streets. H. R. Heimcke (C), Stephen Birard Building. Radial brick, 72 feet high.

Farm House, Red Lion road and Knights road, \$600. Mrs. Ed. Morrell (O), Torresdale, Philadelphia, Pa. M. Darragh (C), Andalusia, Frame, 2 stories, 12x13 feet, shingle roof.

Church, Tower and Grape streets, \$1,400. O. W. Bullock (O), Sixteenth and Lombard streets. Wm. J. Robinson (C), 1508 Lombard street. Alterations.

Dwelling, 302 East Gowen avenue, Mount Airy, \$5,800. Frank Brooke (O), 7420 Boyer street, Germantown. Thomas C. Trafford (C), 1613 Sansom street. Brick, 1 story, 7x13 feet, and alterations.

Boiler House, Wingohocking and Frankford Creek, \$1,800. Philadelphia Felt Co. (O), Frankford, Philadelphia. J. A. Hand (C), 8029 Frankford avenue. Brick, 1 story, 16x45 feet, slag roof.

Garage, Seventeenth and Kater streets, \$2,800. S. I. Goodall (O), 1716 Vine street. Philip Haiback Cont. Co. (C), 1261 North Twenty-sixth street. Alterations.

Boiler Room, Seventeenth and Allegheny avenue, \$800. Harrison Safety Boiler Works (O), on premises. A. G. Smith (C), 2135 N. Sixty-third street. Brick, 1 story, 15x15 feet, slag roof, fan room.

Storage, 1519 North Twenty-eighth street, \$550. A. G. Butger (O), on premises. Chas. D. Land (O), Twenty-eighth and Cambria streets. Brick, 1 story, 48x17 feet, galvanized iron roof.

Storage, 1016 North American street, \$1,000. George Melloy (O), 1416 Spring Garden street. H. H. Burrell (C), 206 South Quince street. Alterations.

Club, 1209 Walnut street, \$1,300. Philadelphia Athletics (O), on premises. Camden Heating Co. (C), 8 Market street, Camden. Steam boiler and heating.

Store, 110 North Ninth street, \$900. A. Carboni (O), 557 North Sixty-third street. Frank Luceri (C), 1603 Ellsworth street. Change present bulk.

Power House, Twenty-eighth and Passyunk avenue, \$59,000. Atlantic Refining Co. (O), 3144 Passyunk avenue. Brick, 1 story, 82x54 feet, slag roof.

Dwelling and Garage, 1000-02 Catharine street, \$300. Pasquale Teti (O and C), on premises. Brick, 1 story, 6x17 feet, slag roof.

Dwelling, 1760 Frankford avenue, \$360. R. Harrison (O), on premises. W. S. Heinberger (C), 735 Cherry street. Brick, 1 story, 11x16 feet.

Office Building, Juniper and Walnut streets, \$1,600. Presbyterian Board of Publication (O), on premises. Albert Zellfelder (C), Broad and Walnut streets. Alterations, five new windows.

Shop, 1209 Mifflin street, \$650. B. Caplan (O), 1211 Mifflin street. Isaac Kohen (C), 915 Cantrell street. Brick, 2 stories, 15x9 feet, slag roof.

Garage, 250 Queen Lane, Germantown, \$2,950. R. Potter (O), 113 West Willow Grove avenue, Chestnut Hill. Henry Specht, Jr. (C), Willow Grove. Brick, 1 story, 48x20 feet, slag roof, fire doors.

Dwelling, 239 Haines street, \$3550. Frank Allsiano (O), on premises. Charlie Davabo (C), 5845 Osceola street. Brick, three-story addition, 16x16 feet, slag roof.

Store, 1026 Chestnut street, \$2,000. The Providence Life (O), 409 Chestnut street. A. P. Frain (C), 319 Market street. Flush bulk and alterations.

Dwelling, 1172 South Broad street, \$400. Carson Realty Co. (O), Broad and Federal streets. F. R. Billotta (C), Seventh and Christian streets. Alterations.

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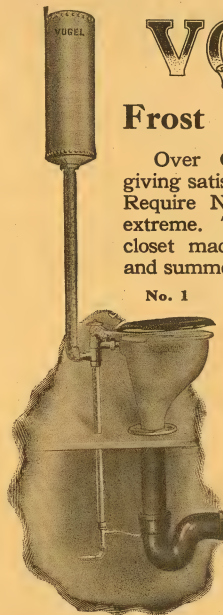
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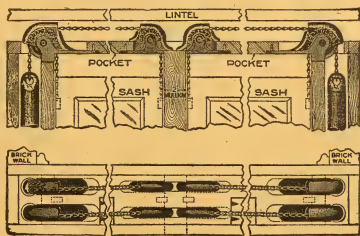
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Vol. XXXII., No. 42
October 17, 1917

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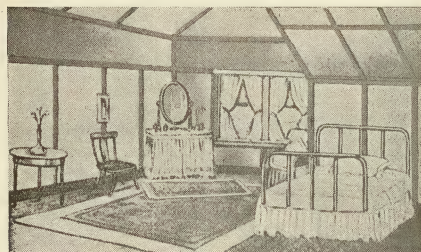
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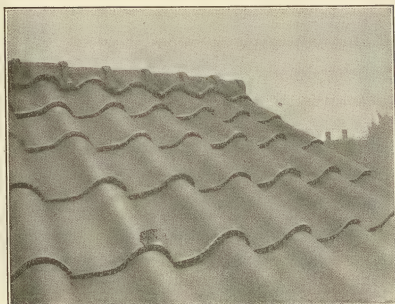
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XXXII
Number 42

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October 17, 1917

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As The Editor Sees It



THE *American Contractor*, of October 6th, devotes several pages to "A survey of the Building Situation," with a view to seeking out the underlying causes for the depression which has settled down on the industry. The causes, as developed by the survey, are three—the high cost of materials, the difficulty of getting and of keeping an adequate supply of skilled labor and the growing uncertainty regarding deliveries in certain indispensable commodities, such as structural steel. Other factors enter into the situation, such as the indisposition of the banks and insurance companies to finance operative and investment building on a large scale in face of the uncertainty of the future; the high money rate existent in certain sections of the country; the natural timidity of the investor about putting his money into tangible property at a time when the government is seeking new and drastic levies on incomes and the feeling everywhere prevalent that the war will not last and that with its termination material costs will drop to nearly normal.

* * *

THE depression which has choked the stream of building industry thus far this year has reached a point where it leaves many large interests high and dry; also a point that suggests the possibility of an early change—where the top of the dam is perhaps nearly reached and but little digging may be necessary to bring a brisk current into

the dry channels," says the *American Contractor*.

"On the one hand, we see a requirement for houses, apartments, factories and office buildings in different sections of the country, aggregating a considerable potential demand."

"On the other hand are men whose business is building, their equipment now idle, and others whose custom it has long been to invest their capital in buildings and building operations, now in a state of inactivity or diverting their money and their energies to other fields of activity.

"It is therefore worth while at this time for those who have the building interests at heart to seek out the underlying causes of this adverse condition with a view to determining what, if any, remedy can be applied, in the hope that thereby some suggestions may be brought forth that will tend to relieve a distressing situation. It is well to inspect the reasons why building is sluggish, when it is likely to revive and to consider whether a sound revival can be hastened by any action, concerted or otherwise, on the part of those most deeply concerned.

"The obvious questions are, how great is the need of more buildings of any class and do builders and investors want to put their money into them—if so, what is the restraining influence?

IT is easy to see that many who have derived profit from building in previous times are at present diverted from the industry either by some feeling of insecurity, by the hope of better profits from other sources or by expectation of a not too remote time when they can build at less costs than those imposed by to-day's wages and material prices. Are these men judging correctly or are they missing a favorable opportunity?

"Any business proposition calls for consideration of, first, the 'eternal verities'—the permanent, underlying facts—and, second, the conditions of the moment affecting those fundamentals and translating them into terms of present value.

"The basic elements of our present problem are the factors of supply and demand.

"Demand may be somewhat stimulated by overproduction or checked by scarcity; it can hardly be really regulated to any important extent.

"Supply can be expanded beyond all reasonable needs or it may be absolutely shut off; it can be regulated to any intermediate point.

* * *

TO say that demand for buildings increases as population increases is the barest statement of a fundamental fact and can only be regarded as a skeleton, to be clothed with the living flesh of actual, present day demands. To complete a statement which would apply to a primitive condi-

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tion, account must be taken of the change in personal requirement—the demand per capita. Every person is entitled to something more than house room. The smallest child requires, in addition to house room, some fraction of a square foot of floor area and some fraction of a cubic foot of space in each factory and mill, producing clothing and food, in each store that distributes them, in some church, school, theater, railway station, hospital, bank and public building.

"And this requirement increases far more rapidly than does the population. As figures and data are lacking from which to formulate statistics let us see just what the development is.

"The grandfathers or great grandfathers of many of us, if living in the country, lived for a time in log houses. If in the city they climbed stairs to their offices and to their hotel rooms; their homes were heated with stoves and lighted by candles or oil lamps; they carried water for their baths. The requirement of each person in those days was very small in comparison with what we now consider the actual, bare necessities of life.

WITHIN the last fifteen years, which is as far back as there seems to be much attempt at building statistics, we have seen the farmers build new and substantial houses or improve the old ones, installing heating, lighting and water systems, with outside additions of silos and garages, unknown a few years ago.

"In the villages we see high schools, fire houses, police stations, banks and office buildings where formerly none existed.

"Coming to the smaller cities we find improved hospitals, asylums and other public buildings; better stores, factories and residences.

"In the big cities we have a wilderness of skyscrapers all filled and tenants clamoring for more space—office and loft buildings, hotels and apartment houses, equipped in a modern and expensive way. Even the tenement house dwellers are quartered in a manner unthought of twenty years ago.

BY taking the statistical line of population increase and comparing it with the line of cost of new building it is easy to prove that the country is so overbuilt that tenants must be lacking for a large part of the business and residence buildings. Such figures are disconcerting, but when we turn from them to a contemplation of the facts as visible to the eye, we perceive the unsoundness of the prior comparison.

"If a man who used to live in a \$2,000 house now lives in one costing \$10,000 that does not signify overbuilding. The same when an old office building or store

is replaced by a modern one; the figures of building operations are increased out of all proportion to the growth of population and yet no over-building is thereby indicated.

CAPITAL is, of course, required to finance the operations of the citizen building a residence, the manufacturer building a new plant and the merchant building a new store; but when we speak of capital in connection with the building industry, reference is supposed to be made to moneys used in large investment operations or loaned to speculative builders, the latter operating largely with borrowed money. War conditions affect both classes.

"Just now investment funds are to a considerable extent diverted to government loans; also, investors see opportunities that seem to promise large returns within a short period, leaving the money then free for building, by which time lower prices and wages are counted upon.

"Speculative builders rely upon the banks and insurance companies; these, feeling the strain of the government bond issues, are disposed to limit their loans. Moreover, in some sections lenders do not regard with favor loans upon factory buildings or even new additions to running plants. It is their view that, on a peace basis, the country is overbuilt as regards factories and is likely to become still more so. Such a condition, if realized, would mean an impaired value of factory buildings as security and a quite probable disturbance of the paying power of the borrowers. They are therefore scrutinizing such applications quite carefully and passing only those that are distinctly gilt-edged. This frame of mind is not universal and may be expected to disappear as the situation clears. The growth of American industry is an irresistible force.

"Some builders with available capital hesitate to employ it in building on account of prevailing costs. This shows questionable judgment. With steel and coal prices both stabilized, a favorable opportunity should be presented. The existent demand is so imperative and the promised returns so large that any softening of the materials market is likely to let loose such a flood of deferred business as will interpose a check and prevent the decline before it progresses far. To wait for the big decline is likely to mean letting the opportunity pass.

THE prospective builder who is watching for a clearing of the financial situation and the consequent easing of interest charges may be encouraged to look for it in the near future if the existing depression in Wall street continues. It has been observed in the past that such depressed conditions in the stock market tend to release

money for realty investment. Other things being equal, money will seek the safest investment.

"This is another question that is to an extent local, but in general it may be said that the present tendency in the application of the war taxation is to seek out intangible property and to tax incomes and securities which were previously not visible or exposed to such attention. A result that may be reasonably expected is a tendency to convert such investments into real property, in the view that it will receive more favorable consideration in the matter of taxation in the future than has been the case heretofore.

WE have thus seen that there is an existent and strong demand for at least some class of building in nearly every locality.

"It seems clear that conditions of supply are not likely to improve to any important degree on the other hand, there is a possibility that the labor situation may be worse next year than to-day, thus partly, at least, offsetting any reduction in building material prices.

"We believe that, when building costs are compared with prices of other commodities and when returns and security are considered, building offers one of the best inducements to builders and to capital.

"The *American Contractor* has been repeatedly asked to inaugurate a campaign of education. We have tried here to lay before you a hopeful but conservative presentation of the facts and conditions surrounding the industry at the moment. Now all our readers can help spread the gospel and 'boost building.' Let us make it a co-operative campaign. Do your bit!"

THE GUIDE has embodied in its series of comment upon the situation every one of the arguments advanced in the foregoing very full and complete study of conditions. We have arrived at the same general conclusion and that is, that nothing is to be gained by continued postponement of contemplated structural projects. There is a demand for new building and the difficulties in the way are not insuperable. What is needed is confidence in the present and in the future and the grit to meet conditions as they are and not as we would like to have them.

Learn to advertise. If you feel unequal to the task of preparing the kind of copy you ought to have, let us prepare it for you. Advertising is our business. We are always glad to help men who are honest enough to concede that they do not know it all. And the service won't cost you a penny if you contemplate joining the army of "Guide" advertisers.

EDITORIAL NOTES

American Iron and Steel Institute will hold its autumn meeting at the Hotel Sinton, Cincinnati, October 26 and 27.

* * *

Alfred R. Ullrich, architect, 371 Fulton street, Brooklyn, recently commissioned Captain of Engineers, is now with the 302nd Regiment at Camp Upton, L. I. He went to the Officers' Training Camp at Plattsburg last May and passed the engineering examination.

* * *

National Machine Tool Builders' Association will hold its sixteenth annual convention at the Hotel Astor, New York City, on Tuesday and Wednesday, October 30 and 31.

* * *

The Stanley Works, New Britain, Conn., will buy and outfit an ambulance for use with the American Expeditionary Forces. Employees in the main plant and the branches in Chicago, New York, Bridgewater, Mass. and Niles, Ohio, will be invited to subscribe.

* * *

National Paint, Oil and Varnish Association held its convention at the Congress Hotel, Chicago, Ill., October 7-11. George V. Horgan, 100 William street, Manhattan, is secretary.

* * *

The National Lime Manufacturers' Association has published in the form of bulletins addresses by Miss Frances Kellor on "The Americanization of Workmen Around the Lime Plants," and by H. J. Russell on "The Necessity for Lime Manufacturers to Stop Cutting Prices and Get More for Lime."

* * *

National Housing Association held its annual meeting at Chicago October 15-17, 1917. Headquarters, Hotel LaSalle. Lawrence Veiller, secretary, 105 East Twenty-second street, New York City.

* * *

Freling Foster, until recently advertising manager of Hughes Electric Heating Company, Chicago, has joined the advertising staff of the Society for Electrical Development. He will take the place made vacant by the resignation of E. M. Hunt, who has become connected with the "Review of Reviews."

* * *

National Municipal League will hold its twenty-third annual meeting in Detroit, Mich., November 21-24, with headquarters at Hotel Statler. For information address the secretary, Clinton Rogers Woodruff, 703 North American Building, Philadelphia, Pa.

* * *

John H. Barker, until recently chairman of the fan section of the Associated Manufacturers of Electrical Supplies, has resigned as sales manager of the Diehl Manufacturing Company, with which he has been connected for more than eight years, to go into business for himself as manufacturers' agent in New York City.

The National Hardware Association and the American Hardware Manufacturers' Association hold their annual joint convention at Atlantic City, N. J., October 17-19, with headquarters for both associations at the Marlborough-Blenheim.

* * *

The Columbia Steel and Shafting Company, Pittsburgh, has established a direct branch sales office in New York City at 295 Broadway, in charge of Tracy F. Manville as district manager of sales. Mr. Manville has been identified with the finished steel industry for a number of years and for the past three years has been associated with the company's Eastern sales department at Boston.

* * *

Charles A. Menk, formerly first vice-president of the Association of Iron and Steel Electrical Engineers, was elected president of the Association at the eleventh annual meeting, recently held at Philadelphia. Mr. Menk has been in the employ of the Carnegie Steel Company at Homestead, Pa., for the last twenty-five years, during the last twelve years as superintendent of the electrical department.

* * *

H. E. Hilts, formerly district engineer at San Francisco for the Portland Cement Association, has been elected by the Board of Directors of that body to succeed the late Mr. J. P. Beck as general manager.

Mr. Hilts was born in New York and obtained his technical and engineering education at the University of Pennsylvania. His first work was as rodman with the Mexican International Railroad. Later he was in the employ of the Philadelphia and Western Railroad. For two years he was instructor in the Engineering Department of the University of Pennsylvania, after which he entered the service of the New York Central Railroad, leaving that company to become associated with the Portland Cement Association as road engineer in 1913, for territory comprising the New England and Northeastern States, having been stationed at Albany and Easton, Pennsylvania. In 1915 he was appointed district engineer at San Francisco.

Mr. Hilts is an associate member of the American Society of Civil Engineers, member of American Society for Testing Materials, associate member of the American Railway Engineering Association and member of the American Concrete Institute.

* * *

Three years ago the total amount of money in circulation in the United States was \$3,480,000,000. This year it is \$4,742,000,000, an increase of a little more than 36 per cent.

* * *

According to a decision recently made by Supreme Court Justice Gavegan, of New York, the State Industrial Commission may direct

owners of buildings to make them "panic proof," even if they were previously fireproof. The court said: "The reasonableness of the commission's orders depends directly on the question, 'Is the building safe from the danger of panic?' Panic may result from causes not confined to a factory building itself nor affected by its fireproof character. It may be caused by smoke alone, or by fire in a building adjoining or in the immediate neighborhood, or by a conflagration, or by a hostile attack in time of war from land, sea or air, or by earthquake, or even by a false alarm."

* * *

Sixty-five manufacturers of tile have united in a widespread organization known as the Hollow Building Tile Association, the membership extending from the Atlantic Coast to Texas, and representing 2,200,000 tons of material. In percentage it is about 90 per cent. of the output of building tile.

The manufacturers united in the organization of this association because they realized the very great need for a central body which would do for the industry the things that needed to be done and which could not be done by the individual manufacturer.

The association has established a building code department and has employed Mr. John A. Ferguson, a trained engineer, to take charge of it. He will co-operate with building committees and building inspectors in all cities and States which are revising their codes.

Mr. E. R. Strutevant is secretary of the association, with offices in the Conway Building, Chicago.

* * *

The markets for building materials and supplies are considerably more hopeful than they have been during recent months. Gradually the depressing conditions are being eliminated, and the trades individually and collectively acquiring a more optimistic attitude toward the future. Material prices are rapidly being stabilized and before long this phase of anxiety to the building fraternity should be entirely eliminated.

* * *

The production of materials and supplies has progressed steadily in spite of numerous manufacturing difficulties but as a whole the material market is in a better position than it has been for many months. The elimination of the fuel problem, the improvement to the transportation situation and other factors have all contributed their part in changing the mental attitude of the manufacturers and dealers in structural commodities.

* * *

The labor situation is slowly adjusting itself, and although the normal is still far distant, the building interests are beginning to observe signs or easier conditions in the labor market. The industrial life of the United States has suffered greatly through labor difficulties during the past two years, but they have undoubtedly weathered the worst of the storm, and from now on the improvement should be marked.

At the present writing it is generally understood that architects and engineers of this city have completed plans for a large number of structures, including practically all classifications. These are being held in abeyance primarily for a recession of material prices to a level that would enable their owners to proceed with construction in confidence, that when the operation was completed a reasonable margin of profit could be obtained. For a long time past the prices of structural materials and supplies were so unsettled that builders contemplating improvements were simply forced to wait. Now there is an indication that market conditions are stabilizing, and undoubtedly this will considerably assist in relieving the tense building conditions.

* * *

For a long while, the building industry as a unit, has placed a large part of the responsibility for the recent marked recession of structural activity upon the steel interests.

The high prices of fabricated steel were undoubtedly an important factor in halting construction work, particularly that type of building dependent upon structural steel in any great quantity. Now that both production and price of steel have been brought under control by the proclamation of President Wilson the building industry does not seem to be much better off than it was prior to the announcement. Before conditions radically improve the entire building situation must undergo a complete readjustment to the new conditions that have been imposed upon it by governmental action. It is generally thought that this will require a considerable length of time. Certainly results could not be expected to immediately follow the price fixing announcement. A condition that was the outgrowth of a long list of depressing factors could not possibly be relieved by a spoken word or a signature upon a document, but will require a period of time in proportion to the value of the anticipated relief.

or through his representatives, on all questions arising between the office and the contractors, or between the office and constructing quartermasters stationed at the several cantonments.

The officer in charge selects assistants, each one to follow in detail the work located in the several cantonments as assigned.

Any correspondence originating in any part of the office other than the Construction Division is signed by the officer originating the correspondence, but goes out over the desk of one of these assistant construction officers, so that they can be familiar with all matters under discussion.

In the same way all correspondence coming in from constructing quartermasters, referring to engineering, material, or accounting matters, comes in over the desk of the proper assistant construction officer, to be noted and forwarded to the officer in charge of the department having jurisdiction.

In addition to the assistant construction officer located in this office and mentioned above, there are other assistant construction officers similarly assigned who act as field supervisors and circulate, each in his own territory, practically all the time, reporting to this office after each visit to a job.

Accounting Division.

The officer in charge supervises accounting matters and the general administration of the office.

Under his direction an accountant is chosen who handles the accounts of this office and supervises the work of the accountants stationed at the various cantonments, and also of the auditors. Each of these auditors covers a territory corresponding to the territory covered by one of the assistant construction officers and visits the jobs in his territory often enough to be sure that office routine and accounting matters are being handled satisfactorily.

The officer assigned to duty in this division for legal matters advises with all divisions of the office at any and all times, and every precaution is taken to comply with laws and regulations, with particular reference to matters involving expenditure of funds.

Constructing Quartermaster's Office.

Each Constructing Quartermaster reports to the office through one of the assistant construction officers outlined above. He has an assistant who is a civil engineer, and there is under him whatever force of surveyors, draftsmen, auditors, etc., is needed by particular circumstances.

The Constructing Quartermaster has the responsibility of adapting to the topographical conditions typical plans furnished by the office.

As outlined above, he has the assistance of civilian engineers in the planning of water supply, sewage disposal, etc. The contractor does such engineering work as is necessary to carry out the plans.

The conditions in various cantonments dif-

THE ORGANIZATION OF THE WAR DEPARTMENT FOR CONSTRUCTION WORK

(Furnished by the Government Committee on Public Information.)

Office of the Cantonment Construction Division of the Quartermaster's Department.

All work pertaining to the thirty-two cantonments for housing the National Guard and National Army, also embarkation depots, warehouses, etc., is handled by Colonel Littell through the organization which has just been set up for that purpose, with Captain Marshall as his Adjutant.

In order to carry out the work, the duties and responsibilities of the several divisions are defined as follows:

Engineering Division.

The officer in charge of the Engineering Division prepared the typical plans of cantonments, including water distribution, internal sewer and draining lines, lighting distribution, trucks, roads, etc. He secured, with Colonel Littell's approval in each case, the services of consulting engineers to do all the engineering involved in water supply and sewage disposal, as this is work which must be done in the field.

Designs prepared for such works are submitted, through Colonel Littell, to the consulting engineers of the Committee on Emergency Construction for approval or comment.

He determines and defines the requirements in the way of laundries, incinerators, refrigerating plants, and informs the Material Officer of the requirements, including any other information that he gets incidental to these investigations, and he and the Material Officer together discuss and recommend to Colonel Littell where these contracts and other similar contracts should be placed, the details of the purchasing being in the hands of the Material Officer.

Material Division.

The officer in charge of the Material Division makes recommendations as to placing all contracts for material to be purchased by this organization. He consults freely with the Engineering Office and with Colonel Littell in connection with the purchase of such equipment as power plants, pumping machinery, refrigerating plants, and similar items, and with the Constructing Officer on building materials and supplies.

He keeps in touch with the various supply committees of the National Munitions Board and works out with those committees the best method of handling supplies of material which they may control.

He also has charge of the inspection and expediting of materials and equipment, excepting such part of this work as may be turned over to the several contractors, and even in these cases is ready at all times to help the contractors in any way possible to secure the necessary materials.

The details of transportation from points of manufacture to the several cantonments are handled by the several contractors, but transportation requirements are worked out in advance and arrangements made with the railroad association and with the Transportation Committee of the Munitions Board so that cars are available and transportation expedited in every way possible.

Construction Division.

The officer in charge of the Construction Division is in charge of all operations in the field and handles the correspondence, directly

fer, and matters of this kind are left largely to the judgment of the Constructing Quartermaster to be decided for each cantonment on its own merits, after consulting with the office.

The theory of the field organization is to use the contractors' organization as far as possible for the field work required and for any engineering details.

The chief accountant is responsible for the administration of the job office of accounting, for all expenditures of the contracting officer direct, and for verifying and auditing the expenditures of the contractor, and payments to the contractor by the Constructing Quartermasters are made practically on the certificate of the chief accountant.

The office issues instructions for the chief accountant, who is a part of the Constructing Quartermaster's organization.

The number of clerks, stenographers and inspectors varies, of course, at the different jobs, depending on local conditions.

Assignments.

The following assignments in charge of divisions have been made:

Material Division, Major R. E. Hamilton.
Engineering Division, Major F. M. Gunby.
Construction Division, Major M. J. Whitson.
Accounting Division, Major W. A. Dempsey.

Office of the Signal Corps

Construction Division

Chief, Construction Division: Captain C. Goodloe Edgar, S. C. U. S. R.

Administration Division.

The duties of the Construction Division of the Signal Corps cover all activities relating to the design and construction of signal corps and aviation buildings, and maintenance and repair of all buildings, both temporary and permanent. It has charge of the railroad transportation of supplies, material and personnel of the corps.

The work of the division, under the direction of its chief, is divided into departments, each in charge of an officer detailed from the Signal Corps, with the single exception of the Engineering Division which is in charge of an officer detailed from the corps of engineers, U. S. Army, and the real estate division in charge of a trained real estate operator on a civil status.

(a) Administration.—This division has general supervision of all correspondence, organization, office methods, annual estimates, and co-ordination of division work, etc., and is in charge of an assistant chief, or acting chief in his absence.

(b) Transportation.—This division has charge of the movement of all supplies, material, and personnel of the corps.

(c) Records and Audits.—This division operates two sub-divisions, one having charge of records and audits at its offices in Washington, two in charge of records and audits in the field.

(d) Engineering.—This division operates through two sub-divisions. One is located in Washington in general charge of engineering

problems; plans, specifications, prices, and inspections. It arranges for the purchase of material and supplies for building operations. The second superintends building operations and engineering problems in the field, inspects material as delivered, and adjusts wages and labor disputes.

(e) Real Estate.—This division has charge of the inspection of proposed aviation training fields, the inspection of other proposed sites for signal corps buildings, preparing and renewal of leases, examination of titles, and it is charged with notification to the Finance Division of dates of payments on leases in advance of their maturity.

(f) General.—An advisory architect has been retained who furnishes the division with plans and specifications for the buildings used for aviation, both temporary and permanent, and whose opinion is secured on all material and supplies.

The work of the division, as will be seen from the above, is divided into work in Washington and work in the field. At each building operation an officer in charge is furnished by the Engineering Department with assistants who are trained by means of daily meetings at the work to complete familiarity with standard plans, specifications, and design of buildings for the Signal Corps. A chief auditor and sufficient assistants are furnished at each building operation to supervise the books of the contractor, to check pay rolls and material bills, to prepare for him the vouchers and papers necessary to be furnished to the Finance Division in Washington before payments can be made. In addition, inspections are regularly made by officers from the headquarters of the division in Washington during the course of the work.

THIS IS A BIG JOB.

"The North Carolina Pine Emergency Bureau, organized at the suggestion of the Council of National Defense, has completed the placing of orders for 6,800 carloads of lumber to be used in the construction of cantonments for the national army," said A. Mason Cooke, chairman of the bureau, at Washington. "Nearly all of this large quantity of North Carolina pine has already been shipped from mills in the States of Virginia, North and South Carolina, and has been used in the building of barracks and other quarters at Petersburg, Va.; Columbia, S. C.; Charlotte, N. C.; Admiral, Md.; Yaphank, N. Y.; Mineola, N. Y.; Gettysburg, Pa.; Syracuse, N. Y.; Ayer, Mass., and several other places 'somewhere' in the Eastern States."

Reports to the Lumber Committee of the Council of National Defense show that nearly 30,000 cars of lumber have been shipped to the 16 cantonment sites and other points of Government construction, and that during the two months ending the 1st of September there were constructed over 24,000 buildings for housing the new army for training subsequent to going to France. About 100,000 men have been employed on these construction jobs, which in itself is the greatest industrial

army ever recruited in the western hemisphere, and ample proof that democracy can equip itself for victory.

MILLIONS FOR JERSEY DEVELOPMENT.

Important Governmental projects are contemplated on the meadows at Newark, N. J., and along the Raritan River. On the Newark meadows the United States Government, represented by the Commanding General of the Eastern Department, Governor's Island, N. Y., and Colonel I. W. Littell, Adams Building, Washington, D. C., is having plans prepared by Major Wheaton, advisory architect, and Major Gunby, advisory engineer, Adams Building, Washington, for a group of storehouse, warehouse and terminal buildings, to cost approximately \$10,000,000. The structures will be of frame, stone and concrete construction. The project also involves the erection of docks and bulkheads, and railroad work. The Government also plans the creation of terminal facilities to cost about \$5,000,000, along the Raritan River. Plans will be prepared privately for Brigadier General W. C. Crozier, Chief of the Ordnance Department, State, War and Navy Building, Washington, D. C.

Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct." Moral Advertiser!

REAL GOLD UNMINED.

"I am here as the self-appointed representative of 900 trade and technical publications printed in the United States and circulated wherever the English language is spoken. How important they are in their relation to advertising may be understood when I tell you that they carry, in the aggregate, advertising to the amount of at least \$25,000,000 a year—one-eighth of all the advertising money that is spent for all forms of publicity in the country—and that these advertisers 'stick' year after year because it pays them to stick.

I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Elevator Shaft, Twelfth and Locust streets, Philadelphia. Architect, Robt. Rhodes McGoodwin, 1422 Walnut street, Philadelphia. Owners, S. S. White Dental Manufacturing Co., Twelfth and Chestnut streets. Brick, 8 stories, 8x6 feet, metal lath, hollow metal skylights, fire doors, roof ventilators (elevators reserved). Architect taking revised bids, due as soon as possible. Turner Concrete Steel Co., 1713 Sansom street, and Drehmann Paving Co., 2622 Parrish street, are figuring.

Recreation Pier, No. 57, Penn Treaty Park, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, George S. Webster, Director, 550 Bourse Building, Philadelphia. Reinforced concrete, steel, timber and wood pilings, double deck, 70x295 feet, bulk head A. P. M. and concrete roof, asphalt paving, cement and pine floors, rolled steel sash, kalamein and steel rolling doors, ornamental iron work, metal lath, safety treads, waterproofing, wire work. Revised plans in progress. Owners will advertise for new bids shortly.

Manufacturing Building (alts.), 846 North Eighth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner's name withheld. Brick, 3 stories, 50x100 feet, elevator, fire tower. Preliminary plans in progress.

Factory (alt.), southwest corner of Eighth and Noble streets, Philadelphia. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Thomas Cusack Co., 213 South Tenth street, Philadelphia. Brick, 1, 2 and 3 stories, 80x195 feet, cement and wood floors, steam heating, electric lighting, office partitions. Architect taking bids, due October 19th at noon. Freund Const. Co., Bulletin Building; Wark-Yardley Co., 1737 Filbert street; A. L. Pretz & Son, Heed Building; W. W. Anstine & Co., 1218 Filbert street, and John H. Ott, Real Estate Trust Building, are figuring.

Residence (alt. and add.), 1728 South Broad street, Philadelphia. \$7,500. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owners, Augustine Social and Beneficial Society, care of architects. Brick, rear addition, 2 stories, 20x21 feet, side addition, 2 stories, 32x8 feet, slag roof, electric lighting, hardwood floors, slate work, dumb waiters, bar fixtures, hollow metal skylights (plumbing and hot water heating reserved). Plans in progress. Architects will be ready for bids in a week.

Garage, Office and Stores (2) (alt. and add.), Twenty-sixth and Somerset streets, Philadelphia. Architect, R. H. Pepper, 1808 North Seventh street, Philadelphia. Owner's name withheld. Consists of remodeling present building, brick, new wall, 1 story, 101x56 feet, roof ventilators, flush bulks, electric lighting, pine floors, metal ceilings, plumbing, cement work, gasoline storage system. Architect taking

bids, due October 20th. Thomas C. Trafford, 1613 Sansom street; Michael F. Kirschner, Forty-ninth and Brown streets; George H. Frank, 1113 Cherry street; F. B. Davis, 240 North Sixteenth street; B. Borenstein, 1510 North Franklin street; Wm. R. Dougherty, 1610 Sansom street; Lam Building Co., 1001 Wood street, are figuring.

Dispensary, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 2 stories, 36x86 feet, slag roof, composition floors, steam heating, electric lighting, tile and marble work, metal lath, roof ventilators, waterproofing and wire work. Owners taking bids, due October 22nd. Evans Const. Co., 9 South Eighteenth street; Wark-Yardley Co., 1737 Filbert street, and Thomas C. Trafford, 1613 Sansom street; W. M. Anstine & Co., 1218 Filbert street; E. J. Kreitzburg, 1345 Arch street; Hogg Construction Co., 1634 Sansom street; Lam Building Co., 1001 Wood street, additional bidders.

Convenience Station, Twenty-second and Lehigh avenue, Philadelphia. Architect, Joseph A. Roletter, City Hall, Philadelphia. Owners, City of Philadelphia, Room 113 City Hall, Philadelphia. Brick, 1 story, 24x18 feet, slate roof, cement floor, metal lath, hollow metal doors. Owners taking bids, due October 18th. Hogg Const. Co., 1634 Sansom street; W. W. Anstine & Co., 1218 Filbert street; George Dobbins, 414 South Forty-first street; E. C. Durell, 1713 North Twenty-fourth street; Mitchell Bros., 2125 Race street; Standard Construction Co., 1713 Sansom street; Monaghan & Losse, Inc., 3016 Chestnut street; H. H. Wehmeyer, 1004 West Lehigh avenue, and John H. Jordan, Thirty-first and Oxford streets, are figuring.

Residences (19), Twenty-first and Spencer streets, Philadelphia, \$43,100. Architect, private plans. Owner, I. K. Davis, 2400 West Oakdale street, Philadelphia. Brick, 2 stories, 15x9 feet, slag roof, steam heating, combination lighting. Work about to be started.

Warehouse (add.), 710-14 South Second st., Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, S. Sklaroff & Sons, on premises. Brick, steel and concrete, 6 stories, 22x100 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, concrete and composition floors, metal lath, waterproofing. Plans in progress. Will be ready for bids in one week.

Office Building, 919 South Thirteenth street, Philadelphia. Architects, Horace W. Castor & Stanford B. Lewis, Stephen Girard Building. Owners, Main Belting Co., on premises. Brick, stone and steel, 3 stories, slag roof, electric lighting. Plans in progress. Too early for details.

Residences (two family) (13), North Philadelphia, \$125,000. Architect, E. Allen Wilson,

1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, stone trim, stone foundations, 2 stories, various sizes, central hot water heating, combination lighting, tile and marble work, hardwood floors, roof ventilators, iron stairs. Plans in progress.

Parish House and Rectory, Front street and Boulevard, Philadelphia. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, St. Gabriel's P. E. Church, care of Rev. J. LeRoy, 8020 St. Martin's Lane, Chestnut Hill. Stone. Plans in progress. Too early for details.

Residences (22), Morris and Apsley streets, Wayne Junction, Philadelphia. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, John McClatchey, Land Title Building, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heating, electric lighting, tile work, hardwood floors. Owner taking sub-bids.

Manufacturing Building (alts.), Fifth and Glenwood avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Consists of strengthening floors, steel girders, etc. Architects have received bids.

Parsonage, Indiana avenue and Thompson street, Philadelphia. Architect, private plans. Owners, Port Richmond M. E. Church, care of Rev. W. H. Smith, on premises. Brick and stone, 2½ stories, tin roof, hot water heating, electric lighting, tile work. Owners have received bids.

Bank Building, northeast corner of Fifth and Tabor road, Olney, \$50,000. Architect, John H. Bothwell, 219 West Tabor Road, and John T. Brugger, 5610 Mascher street, Philadelphia. Owners, Olney Bank, on premises. Stone foundations, limestone, 1 story and basement and mezzanine floor, 40x80 feet, reinforced concrete, slag roof (electric lighting and fixtures, plumbing, vapor heating and hardware separate bids), hollow tile, metal lath, marble treads, iron stairs, ornamental iron work, marble and terrazzo work, roof ventilators, metal window guards, arched grates (bank fixtures reserved). Architects taking bids, due October 24th. Frank G. Stewart, 1616 Sansom street; F. L. Hoover & Son, 1023 Cherry street; A. R. Raff Const. Co., 1615 Thompson street; John V. Speth & Co., 1734 Sansom street; George Kessler Cont. Co., Drexel Building; Daniel W. O'Dea, 5227 North Fifth street; Alfred Steinhauser, 5424 North Fifth street; Wm. H. Ashton, Fifth and Fisher's Lane; Chas. Johnson, Olney, and Walter Cook, Olney, Pa., are figuring.

Passenger Station, Highland avenue, Chestnut Hill, Pa., \$35,000. Engineer, A. C. Sand, C. E., 607 Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick and stone, reinforced concrete and stucco, 1 story, 56x32 feet and 1 story, 32x8 feet; platform, 368 feet

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long, tile roof, steam heat, electric lighting, terrazzo and marble work, rolled steel skylights, cement floors, metal lath, wire work, ornamental iron work. Owners have received bids.

Garage (44 stalls), near Fifty-eighth and Larchwood avenue, Angora, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, William Wallace, 1327 South Fifty-seventh street, Philadelphia. Brick, stone foundations, 1 and 2 stories, 107x81 feet, slag roof, vapor or steam heating, electric lighting, metal partitions, reinforced concrete floors, cement runway, metal cornice (gasoline storage system reserved). Plans in progress. Ready for bids in a few days.

Manufacturing Building (renovating), Columbia avenue, Hancock and Mascher streets, Philadelphia, \$6,500. Architect, private plans. Owners, H. S. Donaldson & Sons, 445 North Third street, Philadelphia. Consists of yellow pine floors, steam heating, freight elevator, changing stairways. Owners taking sub-bids.

Store and Dwelling, Second and Monroe sts., Philadelphia. Architect, I. W. Levin, 2434 S. Eighth street, Philadelphia. Owner, P. Magid, 717 South Second street, Philadelphia. Brick, stone foundations, 3 stories, 16x70 feet, slag roof, hot water heating, electric lighting, tile and marble work, yellow pine floors, millwork, flush bulks, plastering, painting. Owner ready for sub-bids.

Elevated Stations, Contracts Nos. 5533 and 534, 4 Buildings, Philadelphia. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick and concrete, 2 stories, five ply slag roofs, cement granolithic floors, mill work, roof ventilators, metal ceiling, tile and marble work, rolled steel and hollow metal sash, ornamental iron work (electric work and plumbing separate bids). Owners taking bids, due October 30th at noon. Mitchell Bros., 2125 Race street; Standard Const. Co., 1713 Sansom st.; and Keystone State Const. Co., Pennsylvania



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Building, Philadelphia, are figuring.

Store (alt.), 1932 Arch street, Philadelphia. Architects, Bissell & Sinkler, Otis Building, Philadelphia. Owner, Estate of Francis Perot, Lafayette Building, Philadelphia. Consists of raising floor and placing I-beam supports. Architects taking bids, due October 22nd. Stokes Bros., 6723 Musgrave street; F. B. Davis, 240 North Sixteenth street; James H. Wells, Otis Building; R. C. Ballinger & Co., 218 North Thirteenth street; Harry R. Rust, 724 Ludlow street, and Frank G. Stewart, 1619 Sansom street, are figuring.

Mill Building, Sixteenth and Hunting Park avenue, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Bellevue Worsted Mills, care of Benj. W. Greer, Wistar street and P. R. R., Philadelphia. Brick, steel and concrete, 3 stories, 61x412 feet, slag roof, cement and plank floors, steam heat, electric light, rolled steel sash, fire doors, elevators. Architect taking bids, due October 23rd. F. A. Havens & Co., 845 North Nineteenth street; H. E. Baton, 1713 Sansom street; Metzger & Fisher, Otis Building; Charles McCaul Co., 1713 Sansom street; Freund Const. Co., Bulletin Building; Wark-Yardley Co., 1737 Filbert street; F. W. Mark Const. Co., Finance Building, and R. M. Peterson & Sons, 5106 Germantown avenue, are figuring.

Elevator Pent House and Ice Storage House, Station No. 9, Twelfth and Federal streets, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick, concrete, steel and iron elevator. Architects taking bids, due October 22nd at noon. F. B. Davis, 240 North Sixteenth street; Maonagh & Losse, Inc., 3016 Chestnut street; John N. Gill & Co., Otis Building; Barclay White & Co., 1713

Sansom street; Sutton & Stephenson, 1317 Washington avenue; P. Haibach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia, and J. S. Rogers Co., Moorestown, N. J., are figuring.

Police Stations (3) (alts.), 1417 North Front street, Fourth and York streets and Seventh and Carpenter streets, Philadelphia. Architect, Joseph A. Roletter, Room 825 City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall, Philadelphia. Consists of brick work, slate and tin roof, oak, pine and composition floors, tile work, ornamental iron work, metal lath, safety treads, metal ceilings, wire work (plumbing, heating and lighting reserved). Owners taking bids, due at Room 215, City Hall, Philadelphia, October 23rd. Hogg Const. Co., 1634 Sansom street; Mitchell Bros., 2125 Race st.; John H. Jordan, Thirty-first and Oxford sts.; F. A. Havens & Co., 845 N. Nineteenth street, and Wm. A. Mundy, 228 S. Alder street, Philadelphia, are figuring.

Garage, Fifty-seventh and Beaumont streets, Philadelphia. Architect, Henry E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Wm. P. Wallace, 1327 N. Fifty-seventh street, Philadelphia. Stone foundations, brick and reinforced concrete, 2 stories, 87x107 feet, slag roof, vapor vacuum heating, electric lighting, ornamental iron work, wire work. Architect taking bids, due October 19th. J. P. Trent, 2041 Master street, and Smith-Hardican Co., 1606 Cherry street, Philadelphia, are figuring.

A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—E.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Stable and Garage (add.), 2013 Market st., Philadelphia, \$6,500. Architect, private plans. Owner, J. Herbert Schall, 2011 Market street, Philadelphia. Brick, 1 story, 21x107 feet, slag roof, cement floor, steam heating, electric lighting, hollow metal sash and skylights, fire doors. Contract awarded to Stacy Reeves & Son, 2011 Market street.

Limehouse, Tioga and "C" streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Baxter, Kelly & Faust, Tioga and "C" streets, Philadelphia. Brick and reinforced concrete, 1 story, 22x30 feet, slag roof, cement floors, waterproofing. Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Toilet Building (alts.), Ninth and Westmoreland streets, Philadelphia. Architects, Bullinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Surpass Leather Co., on premises. Consist of painting, plumbing and tile work. Contract awarded to Geo. Kessler Cont. Co., Drexel Building.

Factory (add.), Trenton and Rush streets, Philadelphia, \$6,000. Architect, private plans. Owners, J. D. Grover & Sons Co., Somerset and Tulip streets, Philadelphia. Brick, 2 stories, 37x50 feet, slag roof, maple floors. Contract awarded to J. F. Welsh, 1723 West Girard avenue, Philadelphia.

Residence (alt. and add.), 1335 E. Mont. gomery avenue, Philadelphia. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owner, name withheld. Side porch addition, brick and frame, tin roof, hardwood floors, hot water heating, electric lighting, tile and marble work, interior alterations. Contract awarded to Philip Hiebach Cont. Co., Twenty-sixth and Thompson streets, Philadelphia.

Store (int. alt.), Broad and Columbia avenues, Philadelphia, \$4,000. Architect, Le Roy B. Rothschild, Bulletin Building, Philadelphia. Owners, Talking Machine Co., 143 S. Broad street, Philadelphia. Consist of interior alterations, cabinet work, painting, electric lighting, glazing. Contract awarded to Unit Const. Co., Thirty-first and Chestnut streets.

Residence (alt. and add.), Oak Lane, Philadelphia, \$2,000. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, J. Braxton, Oak Lane, Philadelphia. Consists of new porches, new bathroom, plumbing, 1 story addition, hollow tile and stucco, 16x17 feet, shingle roof, yellow pine floors (heating and lighting reserved). Con-

tract awarded to J. F. Trent, 2041 Master st., Philadelphia.

Club House (alt. and add.) and Store, 405 North Sixty-fourth street, \$4,500. Architect, Henry A. McGrath, 549 North Sixty-third st., Philadelphia. Owner, F. Iannozzi, care of Lamber & McDermott, 403 North Sixty-third street. Brick and steel, fire tower, 3 stories (heating and lighting reserved), slag roof, cement and pine floors, metal lath, hollow metal skylights, fire doors, metal bulks, ornamental iron work. Contract awarded to Geo. H. Evans, 9 South Eighteenth street, Philadelphia.

Buildings (7), Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., care of F. R. Harris, Chief, Navy Department, Bureau of Yards & Docks, Washington, D. C. Reinforced concrete and brick; galvanizing plant, 1 story, 61x122 feet; oxyacetylene generating plant, 1 story, 64x64 feet; engine house, 1 story, 69x140 feet; locker house No. 1, 2 stories, 69x109, and locker house No. 2, 1 story, 57x79 feet; two Ramp toilets, 1 story, 15x67 feet; ready and slag roof, cement floors, steam heating, electric lighting, rolled steel sash, fire doors, ornamental iron work, metal lath, safety trends, roof ventilators, wire work (plumbing reserved). Contract awarded to McCloskey & Bahl, 1620 Thompson street, Philadelphia.

Garage and Store (add.), Wayne avenue and Seymour street, Germantown. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Albert Smith, on premises. Brick, 1 story, 42x20 feet, slag roof, hot water heating, electric lighting, cement floors, wire work, ornamental iron work. Contract awarded to Wm. C. Wright, 22 Harvey street, Germantown.

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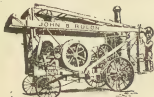
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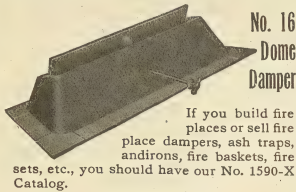
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Pennsylvania Construction News

Store House, Laurytown, Pa. Architect, E. L. Grosch, Hazelton, Pa. Owners, Middle Coal Field Poor District, care of John Bayliss, Hazelton, Pa. Hollow tile, 1 story, 40x60 feet, asbestos shingle roof, steam heating, electric lighting, cement floors. Owners taking bids due as soon as possible.

Garage, Womelsdorf, Pa. Architect, C. J. Young, Reading, Pa. Owner, George H. Dix, Womelsdorf, Pa. Brick, 1 story, composition roof, cement floors, electric lighting (heating reserved), gasoline storage system. Architects taking bids, due October 19th. Chas. Schlegel, Daniel H. Hunter, Adam Spotts, and Wm. Gaul, all of Reading, Pa., are figuring.

Garage, Fleetwood, Pa. Architect, Wayne M. High, Moore Building, Reading, Pa. Owner, A. Merkel, Fleetwood, Pa. Brick, 2 stories, 50x115 feet, composition roof, yellow pine floors, electric lighting, gasoline storage system. Owner taking sub-bids.

Apartment House (alt.), Reading, Pa. Architect, W. A. Fink, 426 Franklin street, Reading, Pa. Owner, M. Schulman, Reading, Pa., care of architect. Brick, 3 stories, 94x20 feet, electric lighting, hot water heating, tile and marble work, hardwood floors, composition roof. Owner taking sub-bids.

Factory Building No. 5 (add.), Stowe, Pa. Architect, Geo. Lerhard, Reading, Pa. Owners, Stanley G. Plagg & Co., Stowe, Pa. Brick, 1 story, 23x121 feet, composition roof, electric lighting. Plans in progress. Too early for details.

Power House, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maccarr Truck Co., Scranton, Pa. Brick, steel and concrete, 1 story, 32x42 feet, asbestos roof (steam heating and ventilating reserved), electric lighting, cement floors, rolled steel sash. Architects have received bids.

Office Building (alt.), Eight and Hamilton streets, Allentown, Pa. Architects, Ruhe & Lang, Allentown, Pa. Lessee, Lehigh Navigation & Electric Co., Allentown, Pa. Consists of brick work, general interior alterations, 2 stories, 110x40 feet. Plans in progress.

Church, Allentown, Pa., \$22,000. Architect,



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J. F. Reilly, Buckley Building, Allentown, Pa. Owner, name withheld. Brick, 1 story, 40x 35 feet, asbestos shingle roof, maple and pine floors (steam heating and electric lighting reserved). Plans in progress. Too early for details.

Garage, Easton, Pa. Architect, J. F. Reilly, Buckley Building, Allentown, Pa. Owner, L. J. Mattes, Easton, Pa. Cement block, 1 story, 40x60 feet, slag roof, cement floors (hot water heating, electric lighting and gasoline storage system reserved). Plans in progress.

Residences (8), East Bethlehem Heights, Pa. Architect, private plans. Owner, Louis Rocco, Bethlehem, Pa. Brick, 2 stories, 32x 34 feet, slate and shingle roof, pine floors, electric lighting. Owner will build.

Residences (6), East Bethlehem Heights, Pa. Architect, private plans. Owner, Wm. Clark, Plymouth, Pa. Frame, 2 stories, 16x 40 feet. Owner will build.

Residences (6), East Bethlehem Heights, Pa. Architect, private plans. Owners, Umberger & Flosser, Bethlehem, Pa. Frame, 2 stories, 10x40 feet. Owners will build.

Residences (2), Drexel Hill, Pa. Architects, Louis Magaziner and Victor Eberhard, 603 Chestnut street. Owner, Louis Magaziner, 603 Chestnut street, Philadelphia. Stone and stucco, 2 stories, 29x24 feet, slate and shingle roof, pine floors, metal lath (heating, lighting and plumbing reserved). Architects taking bids. Specht & Sperry, Reed Building, are figuring.

Garage, Andalusia, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owners, Henry F. Mitchell Co., 518 Market street, Philadelphia. Hollow tile and stucco, 1 story, 28x36 feet, slate roof, cement floor, electric lighting. Architect taking additional bids, due as soon as possible from W. J. Chase & Son, Ashton street, Holmesburg, Philadelphia, and Frank C. Snyder, Bristol, Pa.

Rectory (add.), Chester, Pa., \$2,000. Architect, Clarence W. Brazier, Crozer Building, Chester, Pa. Owners, St. Paul's P. E. Church, Chester, Pa. Brick, 2 stories, 66x19 feet, consists of general interior and exterior alterations, in roof. Architect has received bids.

Hospital (add.), Chester, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, Chester Hospital, Chester, Pa. Consists of addition to operating pavilion. Preliminary plans in progress.

Residence (alt. and add.), Bryn Mawr, Pa. Architect, Edw. T. Boggs, 146 South Fourth street, Philadelphia. Owner, name withheld. Frame, living room and sleeping porch addition, vapor heating, electric lighting, slate roof, tile and canvas floors. Plans in progress.

Garage, Eddystone, Pa. Architect, private

plans. Owners, Baldwin Locomotive Works, 900 North Broad street, Philadelphia. Brick, steel and concrete. Work contemplated.

Stores (2) (alts.), Easton, Pa., \$4,500. Architect, H. J. Wenzelberger, Easton, Pa. Owners, Detweiler Estate, Easton, Pa. Brick, 1 story, 52 feet front, metal bulks, tile and marble work. Plans in progress.

Residence, Easton, Pa., \$14,000. Architect, H. J. Wenzelberger, Easton, Pa. Owner, name withheld. Frame, 2½ stories, 35x60 feet, tile roof, hot water or vapor heating, electric lighting, tile and marble work, hardwood floors. Plans in progress.

Garage and Apartment Building, Goeth and New streets, Bethlehem, Pa., \$22,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Meyer Beiberger Co., Bethlehem, Pa. Reinforced concrete and hollow tile, 4 stories, 67x43 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash and skylights, hardwood, pine and marbled floors, hollow tile, metal lath. Plans in progress.

Garage, South Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Pa. Owner, A. Refovich, South Bethlehem, Pa. Hollow tile and stucco, 1 story, 25x25 feet, slate roof, cement floors, electric lighting. Plans completed. Owner taking bids.

Garage, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem, Pa. Frame, 1 story, 110x20 feet, asbestos roof, cement floors, steam heating, electric lighting, gasoline storage system. Plans in progress.

Pay Office, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem, Pa. Frame, 1 story, 40x30 feet, asbestos shingle roof, steam heating, electric lighting, pine floors. Plans in progress.

Factory Building, Buttonwood and Poplar streets, South Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owners, Schwalb & Miller, on premises. Brick, 3 stories, 40x60 feet, slag roof, pine floors, hollow tile, metal lath, elevators (heating reserved), hollow metal sash and skylights, fire doors. Architect has received bids.

Manual Training School, Richmond Hill, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owners, John School, Richmond Hill, Scranton, Pa. Brick, 3 stories, 160x40 feet, slate roof, composition floors (steam heating, electric lighting and plumbing reserved), rolled steel sash, fire doors, fire escapes, hollow tile, metal lath, metal weather-strip, waterproofing. Plans in progress. Architect will take general bids in about one

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High School (add.), Dunmore, Pa., \$75,000. Architect, J. J. Howley, Scranton, Pa. Owners, School Board of Dunmore, Dunmore, Pa. Brick, fireproof construction, 3 stories, 2 wings, 40x90 feet, slag roof (steam heating, electric lighting and plumbing reserved), tile and marble work, hollow metal sash and skylights, fire doors, fire escapes, iron stairs, concrete floors, hollow tile, metal lath, roof ventilators, metal weatherstrips, waterproofing. Building will contain gymnasium, auditorium, manual training shop, chemical laboratories and lecture room. Plans in progress.

Fire House, Olyphant, Pa., \$7,500. Architect, J. J. Howley, Scranton, Pa. Owners, Olyphant Hose Co., Olyphant, Pa. Frame and stucco, 2 stories, 26x12 feet, slag roof, steam heating, electric lighting, pine floors. Plans in progress.

School, Dickson City, Pa., \$45,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board, Dickson City, Pa. Frame and stucco, 2 stories, 112x60 feet, slag roof, pine floors, steam heating, electric lighting, metal lath. Architect has received bids.

Church (alts.), Sayre, Pa., \$20,000. Architect, John J. Howley, Traders Bank Building, Scranton, Pa. Owner, Rev. J. L. Shanley, R. C. Church of the Epiphany, Sayre, Pa. Architect taking sub-bids on stained glass, carpenter work, plastering, composition floors, metal ceilings, millwork, steam heating, plumbing and electric lighting.

Zoological Building (add.), Scranton, Pa., \$8,000. Architect, J. J. Howley, Scranton, Pa. Owners, Department of Public Works, City of Scranton, Pa. Concrete work and iron fence. Plans in progress.

Church, Olyphant, Pa., \$50,000. Architect, J. J. Howley, Scranton, Pa. Owners, St. Patrick's R. C. Church, Rev. P. J. Murphy, Olyphant, Pa. Brick and stone, 1 story, 64x100 feet, tile roof, pine floors, hollow tile, metal lath, steam heating, electric lighting, metal weatherstrip, waterproofing. Sketches accepted.

Bridge No. 62, north of Halls, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Pa. Concrete, stone and iron, steel and lumber, 50 feet long, metal caging, waterproofing. Owners taking bids, due October 20th. A. L. Carhart, Hale Building, is figuring.

Buildings (6) (alts. and add.), Twelfth st. and Edgemont avenue, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Consists of changing present store buildings into stores and apartments, hot water heating,

electric lighting, tile and marble work, metal bulks, plastering and painting. Plans in progress.

School, Vanley, Pa. Architect, G. W. Osterhout, Connell Building, Scranton, Pa. Owners, Board of Education, Vanley, Pa. Brick, 5 stories, 10 rooms, pine floors. Owners taking bids.

Apartment House, South Washington street, Wilkes Barre, Pa. Architect, Frank Sahn, Wilkes Barre, Pa. Owner, name withheld. Brick, 3 stories, 44x64 feet, tin roof (plumbing reserved), oak floors, electric lighting. Architect has received bids.

Hatchway and Elevator, Wilkes Barre, Pa. Architect, Frank Sahn, Wilkes Barre, Pa. Owners, McWilliams Department Store, Wilkes Barre, Pa. Brick block, 5 stories and basement, 8x8 feet, rolled steel sash, fire doors (elevator reserved). Architect taking bids. A. M. Hildebrand, Shepherd Const. Co., John Hames and A. D. Thomas, all of Wilkes Barre, Pa., are figuring.

School, Dunmore, Pa., \$25,000. Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board of Dunmore, Ed. P. Moore, secretary, Dunmore, Pa. Frame, 2 stories, 4 rooms (steam heating, electric lighting, slate roof, pine floors. Contract awarded to Peek & Carmody, Dunmore, Pa. **Factory Building (add.)**, North and Penn streets, Wilkes Barre, Pa., \$10,000. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owners, Press Steel Co., Wilkes Barre, Pa. Concrete, 1 story, 57x80 feet, slag roof, concrete floors (steam heating and steel sash reserved), electric lighting, fire doors. Contract awarded to E. T. Long, Coal Exchange Building, Wilkes Barre, Pa.

School (add.), Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes Barre, Pa. Owners, Board of Education, Plains, Pa. Frame, 1 story, 30x50 feet, slag roof, pine floors. Contract awarded to Moses Griffith, Plains, Pa.

Sun Parlor (State Hospital), Franklin ave. and Mulberry street, Scranton, Pa., \$3,000. Architect, Edw. Langley, Scranton Life Building, Scranton, Pa. Owners, Board of Managers, State Hospital, Silas P. Walter, secretary, Scranton, Pa. Brick and frame, 1 story, 20x30 feet, slag roof (steam heating and electric lighting reserved), wood floors. Contract

awarded to E. S. Williams, Coal Exchange Building, Scranton, Pa. **Store and Apartments (alt. and add.)**, Wilkes Barre, Pa. Architects, Knapp & Bosworth, Wilkes Barre, Pa. Owner, name withheld. Brick, 3 stories, 128x100 feet, 16 apartments, pine floors, steam heating, electric lighting, tile and marble work, metal lath, hollow metal sash and skylights, fire escapes, iron stairs. Plans about completed. Architects ready for bids.

Bungalow, Pocono Pine, Pa. Architects, Heacock & Hokanson, 1213 Chestnut street, Philadelphia. Owner, Henry J. Kaltenthaler, 625 W. Upsal street, Germantown. Stone and frame, 1½ stories, 50x46 feet, shingle roof, pine floors, electric lighting. Architects taking bids, due as soon as possible. E. J. Kreitzburg, 1345 Arch street, and A. Y. Hoffman, East Stroudsburg, Pa., are figuring.

Factory Buildings (2), Hazleton, Pa. Architect, not selected. Owners, Wridgway Company, care of Chas. Mans, secretary, Hazleton, Pa. Frame and concrete, 2 stories, 150x60 feet and 36x80 feet. Work contemplated.

Slaughter House, Quarrytown, Pa. Architect, E. L. Grosch, Hazleton, Pa. Owners, Middle Coal Field Poor District, John Bayliss, secretary, Scranton, Pa. Hollow tile, 1 story; 20x48 feet, slag roof, cement floors, steam heating, electric lighting. Owners taking bids, due as soon as possible.

Garage, Tipton, Pa. Architect, W. A. Fink, Reading, Pa. Owner's name withheld. Brick, 1 story, 104x49 feet, composition roof, cement floors, steam heating, gasoline storage system. Architect taking sub-bids.

Residence (alt.), Jenkintown, Pa. Architects, McVain & Roberts, Otis Building, Philadelphia. Owner, Walter A. Bailey, Jenkintown, Pa. Frame, new sleeping porch, slag and canvas roof, pine floors. Architects taking bids, due October 17th. Graham-Caplan Co., Otis Building, and Gray Bros., Rosemont, Pa., are figuring.

PENNSYLVANIA

Contracts Awarded

awarded to E. S. Williams, Coal Exchange Building, Scranton, Pa.

Store (alt.), Seventh street above Edgemont avenue, Chester, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, Robert Howarth Sons, Chester, Pa. Brick, 1 story and basement, 125x25 feet, new bulk windows, metal marquise, hardwood floors, cabinet work, millwork, vault lights, electric lighting, plastering and painting. Contract awarded to Ward Co., Chester, Pa.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Chas. P. Lynn, Bethlehem, Pa. Brick and frame, 2½ stories, 35x33 feet, slate roof, yellow pine floors (hot water heating reserved), electric lighting. Contract awarded to Wm. Knoff, Main street, Bethlehem, Pa.

School, Ashland Heights, Montgomery Co., Pa., \$112,000. Architect, Ernest H. Yardley, 1713 Sansom street, Philadelphia. Owners, Lower Merion School Board, S. E. Downs, superintendent of schools, Ardmore, Pa. Stone, hollow tile and stucco, 1 story and basement, 106x180 feet, asphalt roof, composition and wood floors, tile and marble work, rolled steel sash, hollow metal sash and skylights, fire and kalamein doors, metal lath, roof ventilators, metal weatherstrips, waterproofing,

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dampproofing, wire work, ornamental iron work, plumbing, heating, electric work and ventilating. Contract awarded to A. L. Fretz & Son, Heed Building, Philadelphia.

New Jersey Construction News

Bungalow, Stewartville, N. J. Architect, A. D. Chidsey, Easton, Pa. Owner, Joann Pittinger, Stewartville, N. J. Stone and shingle, 1½ stories, 35x40 feet, slate roof, pine floors, hot air heating, electric lighting. Owner will be ready for bids in a week.

Post Office, Woodbury, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Govt., Treasury Department, Washington, D. C. Owners taking bids, due November 23d, at 3 P. M. Plans and specifications may be obtained from custodian's office or at the office of the architect.

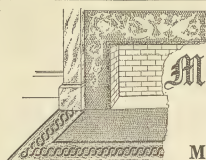
School, Browns Mills, N. J., \$12,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Pemberton Township, Pemberton, N. J. Frame, 1 story and basement, 76x52 feet, asbestos roof, steam heating, electric lighting, yellow pine floors, metal lath, fire doors, ventilators, hollow tile. Architects taking revised bids, due October 18th. Evans Const. Co., 9 South Eighteenth street, Philadelphia; Conklin Satts, Bradley Beach, N. J.; E. W. Esham, Mt. Holly, N. J.; Rhodenburg Co., Browns Mills, N. J.; Hugh B. Miller, Edgewater Park, N. J.; Geo. W. Shaner & Son, Palmyra, N. J.; Peterson Const. Co., Clayton, N. J., and J. E. Kolster, Beverly, N. J., are figuring.

Manual Training and Industrial School, Bordentown, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, State of New Jersey, Board of Managers, Home for Colored Youths, Trenton, N. J. Brick, reinforced concrete and steel, 2½ stories and basement, 46x68 feet, slate and tin roof, cement and pine floors, metal lath, hollow metal doors (plumbing, heating and lighting reserved). Architect taking bids, due October 23d. Wark-Yardley Co., 1737 Filbert street, is figuring.

Girls' Dormitory (add.), Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, New Jersey School for the Deaf, Trenton, N. J. Stone, brick, reinforced concrete and steel, 3 stories and basement, 83x36 feet, slag roof, cement, pine and maple floors, hollow tile, tile and marble work, metal window guards, iron stairs, ornamental iron work (plumbing, heating and lighting reserved). Architect taking bids, due October 29th. Wark-Yardley Co., 1737 Filbert street, Philadelphia, and S. W. Mather & Son, Greenwood and Canal street, Trenton, N. J., are figuring.

Residence, Atlantic City, N. J. Architects, Druckemiller & Williams, 1537 Chestnut st., Philadelphia. Owner, M. W. Newton, Green's Hotel, Eighth and Chestnut streets, Philadelphia. Brick and plaster, 2½ stories, 34x70 feet, wing 19x20 feet, slate roof, vapor heating, electric lighting, hardwood floors. Architects taking bids, due October 24th. Lam Building Co., 1001 Wood street; F. L. Hoover & Sons Co., 1023 Cherry street; James H. Wells, Otis Building, Philadelphia, and P. H. Hannum, W. S. Higbee, and Hampton Bros., all of Atlantic City, N. J., are figuring.

Bake Oven (add.), 526 Kaighn avenue, Camden, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, R. Birrer, on premises. Brick, 1 story, 30x16 feet, slag



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roof, cement and pine floors, electric lighting. Owner will take sub-bids.

Factory Buildings (3), Washington, N. J. Architect, W. A. Kleeman, Second National Bank Building, Trenton, N. J. Owners, Washington Porcelain Co., Washington, N. J. Hollow tile, 1 story, 450x45 feet, slag roof, maple floors, steam heating, electric lighting, hollow tile, hollow metal skylights, roof ventilators. Plans about completed. Owners will build.

Factory, Trenton, N. J. Architect, J. O. Hunt, 114 North Montgomery street, Trenton, N. J. Owners, Bay Ridge Specialty Co., care of architect. Brick, 1 story. Plans in progress. Too early for details.

Factory, Yardville, N. J., \$20,000. Architect, J. O. Hunt, 114 North Montgomery st., Trenton, N. J. Owners, Zee Zee Tire and Rubber Co., Trenton, N. J. Brick and concrete, 2 stories. Plans in progress. Too early for details.

Residence (alt. and add.), Flemington, N. J., \$5,000. Architect, W. W. Slack, St. Regis Building, Trenton, N. J. Owner, Mr. Schank,

Flemington, N. J. Frame, 2½ stories, 15x30 feet, slate roof, hot water heating, electric lighting, hardwood floors. Plans in progress.

Residence, Morris Heights, N. J., \$12,000. Architect, W. W. Slack, St. Regis Building, Trenton, N. J. Owner, Charles H. Carver, Flemington, N. J. Hollow tile and stucco, 2½ stories, 32x43 feet, slate roof, hardwood floors, electric lighting. Plans completed. Architect ready for bids.

Entrance Gates to the New Interstate Fair, Trenton, N. J. Architect, W. A. Kleeman, Second National Bank Building, Trenton, N. J. Owners, Interstate Fair Association, Commonwealth Building, Trenton, N. J. Consists of small brick and stucco building, 1 story, slate roof, concrete work and iron gates. Architect taking bids, due October 18th. J. H. Morris, Broad Street Bank Building; Ed. La Rue, Hermitage avenue; Burton & Burton, American Mechanics' Building; Thomas Day, 1109 Greenwood avenue, and Fred Scott, 114 North Montgomery street, all of Trenton, N. J., are figuring.

NEW JERSEY

Contracts Awarded

Home (add.), Haddonfield, N. J., \$5,000. Architect, Frank V. Nickels, Real Estate Trust Building, Philadelphia and Howard Hall Assoc., 819 Cooper street, Camden, N. J. Owners, Shepherd's Home, Haddonfield, N. J. Frame, 2 stories, 38x45 feet, slag and tin roof, steam heating, electric lighting, pine floors. Contract awarded to E. J. Kreitzburg, 1348 Arch street, Philadelphia.

Office Building (add.), Fifth and Federal streets, Camden, N. J. Architect, Arthur Truscott, 19 Springfield avenue, Merchantville, N. J. Owners, Camden Fire Insurance Association, on premises. Brick, fireproof construction, 1 story, 20x1550 feet, composition roof, cement floors, metal lath, rolled steel slabs (heating, electric lighting and plumbing reserved). Contract awarded to George Bachmann, Camden, N. J.

Residence and Garage, Edgewater Park, N. J. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, George Rhawn, Beverly, N. J. Brick, 2½ stories, 42x55 feet; garage, 1 story, 19x24 feet, shingle roof, cement and hardwood floors, steam heating, electric lighting, tile work. Contract for brick, concrete and cement work awarded to H. Shorts & Co., Nineteenth and Dickinson sts., Philadelphia. Contract for carpentry work awarded to Hugh B. Miller, Edgewater Park, N. J.

Boiler House, Muirhead avenue, Trenton, N. J., \$5,000. Architect, private plans. Owners, Luzerne Rubber Co., Trenton, N. J. Brick and steel, 1 story, 50x40 feet, slag roof, concrete floors. Contract awarded to Newton K. Bugbee, Trenton, N. J.

Factory, North Clinton avenue, Trenton, N.

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J., \$40,000. Architect, private plans. Owners, Empire Tire and Rubber Co., Trenton, N. J. Brick, steel and frame, 1 story, 90x30 feet, slag roof, concrete floors, electric lighting,

metal lath and sash, fire doors and ventilators. Contract awarded to Newton K. Bugbee, Trenton, N. J.

DELAWARE

Construction News

Court House (alt.), Kent County, Dover, Del. Architects, Wilson Eyre & Melvaine, 1003 Spruce street, Philadelphia. Owners, Kent County Commissioners, Dover, Del. Brinck and stone, 2 stories, slate roof, hot water heating, pine and composition floors, hot water heating, electric lighting, marble work, rolled steel skylights, waterproofing and dampproofing, wire work, ornamental iron work. Architects taking revised bids, due October 22d. R. C. Ballinger & Co., 218 N. Thirteenth street; Jacob Myers & Sons Co., Witherspoon Building, Philadelphia; Jas. A. Hirons, Dover, Del.; Lon W. Clifton, Dover, Del.; Harvey B. Riggs and Geo. A. Coffin, Dover, Del., are figuring.

Protectory (alt. and add.), near Delaware City, Del. Architect, John J. Kennedy, Ford Building, Wilmington, Del. Owners, St. James Protectory, care of Rt. Rev. John J. Monaghan, Wilmington, Del. Brick, 2 stories. Plans in progress. Too early for details.

Chapel (alt.), Rodney street, Wilmington, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owners, Westminster Presbyterian Church, Rodney street, Wilmington,

Del. Stone, 1 story, general interior alterations. Plans in progress.

Restoration of Historical Building, Brandywine, Del. Architect, E. C. May, Du Pont Building, Wilmington, Del. Owners, Historical Society of Wilmington, Del. Brick, 2 stories, 50x35 feet, slate roof, pine floors, hot air or hot water heating, electric lighting. Plans completed. Architect ready for bids.

Store (10) (alts.), Tenth and French sts., Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, A. L. & F. M. Crawford, 915 Delaware ave., Wilmington, Del. Brick, 1 story, metal ceilings, flush bulks. Contract awarded to Geo. Rodman, 403 Concord avenue, Wilmington, Del.

Dwellings (2), west Twenty-eighth street, Wilmington, Del. Architects, E. L. Rice, Jr., Co., 815 Market street, Wilmington, Del. Owner, Samuel Haynard, west Twenty-eighth st., Wilmington, Del. Brick, 2 stories, 27x21 feet, slate roof, hot air heating, combination lighting, pine floors. Contract awarded to E. Nutter, 9 West Thirtieth street, Wilmington, Del.

MARYLAND

Construction News

Factory (alt. and add.), Pratt and Penn streets, Baltimore, Md. Architects, Blanke & Zink, Equitable Building, Baltimore. Owners, Standard Overall Co., 701 W. Pratt street, Baltimore, Md. Brick and concrete, 5 stories and basement, 38x130 feet, slag roof, steam heating, electric lighting, electric elevator, iron work, millwork, reinforcing bars, steel sash, fire doors, glazing, hardware, sprinkler system. Ownes taking bids, due as soon as possible. Price Concrete Const. Co., Maryland Trust Building, Baltimore, is figuring.

Y. M. C. A. Building, Druid Hill avenue and Dolphin street, Baltimore, \$100,000. Archi-

tect, private plans. Owners, Colored Branch of Y. M. C. A., Baltimore, Md. Brick, 4 stories, 100x60 feet, slag roof, steam heating, electric lighting, plastering, painting, plumbing, interior tile work. Plans about completed. George H. Morris, Title Building, Baltimore, builder, will take sub-bids in about two weeks.

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Maryland

Contracts Awarded

Garage (add.), Truxton street, Baltimore, Md. Architect, private plans. Owners, Pennsylvania Railroad Co., Union Station, Baltimore, Md. Brick and reinforced concrete, steel partitions, plumbing, painting. Contract awarded to H. M. Reinhart & Co., Calvert Building, Baltimore.

Church, Reisterstown Road and Wylie avenue, Baltimore, Md. Architect, John R. Forsythe, 232 St. Paul street, Baltimore, Md. Owners, Calvary Christian Church, on premises. Frame, 1 story; 22x55 feet, composition roof, electric lighting, gas heating, plumbing, painting, glazing. Contract awarded to Edw. F. Gronaw, Jr., 332 Belvidere avenue, Baltimore, Md.

Residence, Harford avenue and Southern avenue, Baltimore, Md. Architect, private plans. Owner, M. Russells, on premises. Frame, 2 stories, shingle roof, steam heat, electric lighting. Contract awarded to E. Eyring & Sons, Third and Falt avenue, Baltimore, Md.

Guest House, Camp Mead, Annapolis, Md. Architects, Ware & Ware, New York City. Owners, Y. W. C. A., Park avenue and Franklin street, Baltimore, Md. Frame, 1 story, 45x135 feet, rubberoid roof, steam heat, plumbing. Contract awarded to Claiborne-Johnston Co., Garrett Building, Baltimore, Md.

Store and Dwelling, 754 West Baltimore street, Baltimore, Md. Architect, J. E. Laferity, 11 East Pleasant street, Baltimore, Md. Owner, Henry I. Dunnoek, 749 West Baltimore street, Baltimore, Md. Brick, 3 stories, tin and slag roof, electric lighting, plastering, tile and marble work (heating reserved). Contract awarded to Milton C. Davis, 907 West Thirty-sixth street, Baltimore, Md.

Aeroplane Factory, Key Highway and Jackson street, Baltimore, Md. Architect, private plans. Owners, American Propeller and Manufacturing Co., 233 East Hamburg street, Baltimore, Md. Concrete, 1 story, 150x200 feet, slag roof, steel sash. Contract for substructure, brick and concrete work awarded to Price Concrete Const. Co., Maryland Trust Building, Baltimore, Md.

Garage, 3126 East Lombard street, Baltimore, Md., \$1,500. Architect, private plans. Owner, Frederick Knoche, Baltimore, Md. Brick, 1 story, slag roof, concrete floor. Contract awarded to E. Eyring & Son, 800 South Third street, Baltimore, Md.

Miscellaneous

Construction News

School, Plainfield, Mass. Architects, Mellor, Meigs & Howe, 205 S. Juniper street, Philadelphia. Owners, Moses Hallock Memorial School, Plainfield, Mass. Frame, hollow tile, 2 stories, 75x30 feet, wing, 45x30 feet, shingle or slate roof. Plans in progress. Too early for details.

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A trade mark means that you are not ashamed to have prospective clients go and see the work you have done for other people. The man who is making an article merely to sell, without regard to its value, never puts his name on it. Such a man puts up a house, gets his money before the "just as good" paint has commenced to scale and fade, and departs in such a way that the postmaster stamps his mail "Address unknown" and sends it to the dead letter office.

A "trade marked" contractor is entitled to a better price for his work, for he is doing better work, and he must keep the quality up or his advertising will not ring true and he will lose out entirely. A "trade marked" contractor will use materials that the average owner has heard about and is acquainted with. He will often get better prices than the contractor without a trade mark, because he has the reputation and the credit of being a bigger man and doing bigger things.

The "trade marked" contractor, by getting a better price for his work, can often put in some extras that will add to the comfort of the owner, making a friend and perhaps helping to get other jobs from the owner's friends.

The "trade marked" contractor should be, in his own home town, just as important a man as a banker and as big as any dealer. The better he advertises, without being boastful, the better he becomes known, and eventually the finest building jobs of the town will be his without half the effort that an irresponsible contractor will have to go through with.—"National Builder."

A NOVEL BUILDING SCHEME.

The Canton, Ohio, Chamber of Commerce "Build a Home" campaign has reached out of the city in an effort to secure home building information in other cities. Herbert H. Dow, millionaire chemical manufacturer, of Midland, Mich., a former Canton business man, has submitted a plan by which his company dealt with a situation similar to that now facing Canton.

Dow stated that his company had purchased a large tract of land, secured the service of an expert to lay it out, and also a welfare

man whose duties were to see that every family represented in his employ was properly housed and that no homes built by the company were sold to undesirable persons.

Houses costing from \$675, plus the price of the lot, to \$2,500 each, were erected and sold. On the low cost houses a cash payment of only 5 per cent. was required and a larger percentage on the higher priced homes. Monthly payments of \$10 in addition to taxes and interest at 6 per cent. were added.

As soon as sufficient money had been paid on a house so that a bank would undertake the loan, the Dow Chemical company closed its relations with the buyer and permitted the property owner to issue a mortgage and deal directly with the bank.

In this way a large tract of what was presumed to be swampy and unavailable land at Midland was properly drained and made into a building site for many homes and the home building and housing problem for the employees of this company was solved.

SKILL AND PATRIOTISM OF BOSTON BUILDERS LAUDABLE.

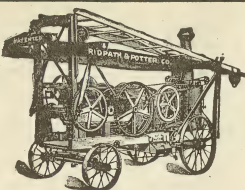
In these times of crucial tests of men's souls and patriotism, with delays in Congress, and

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RIDPATH & POTTER CO

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Philadelphia, Penna.



price fixing, and strikes, it is refreshing to know there are some splendid examples of heroic manhood that deserves a wreath in the Hall of Fame for loyalty. Beyond any doubt the nine thousand workmen who constructed Camp Devens at Ayer, Massachusetts, under the contract awarded Fred T. Lay & Co., Inc., of Boston, are entitled to all this and more, because they have completed this work for the United States Government ahead of time, and at a time when men were hard to get because of the large number enlisting in the army or navy.

To thoroughly appreciate these statements the reader must be informed there are 746 buildings that were finished in sixty days, or an average of one building every forty minutes for each working day in two months. Which means the delivery and handling of thirty million feet of lumber; unloading fifty carloads of materials daily; building a complete water supply system with twenty miles of pipe, and building a complete system of sewerage with twenty miles of pipe.

These buildings included a 1,000-bed hospital unit costing \$500,000, refrigerating plants, storehouses, bakeries and miscellaneous buildings, in addition to the quarters for soldiers involving an outlay of \$6,000,000.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 4521 Pulaski avenue, Germantown, \$400. N. Souza (O and C), on premises. Stone, 1 story, 9x18 feet, cement floor.

Dwellings (3), Mansion and Leverington avenues, \$6,000. Martin H. Keller, Jr. (O), 326 Dupont street. Wm. E. Keller (C), 480 Hammond road. Stone and brick, 2 stories, 14x31 feet, slag roof, hot air heating.

Shed, Twenty-second and Lehigh streets, \$3,000. Martin Rockwell Co. (O), Forty-ninth and Lancaster avenue. Standard Const. Co. (C), 1713 Sansom street. Open shed, 1 story, 21x123 feet.

Dwellings (6), Friendship and Shelburne streets, \$15,600. Ed. Stott (O and C), 5430 Water street. Brick, 2 stories, 20x26 feet, slag roof, hot water heating.

Garage, Delaware and Weecoe avenues, \$2,000. Brown Mfg. Co. (O). E. A. Connell (C), 2338 South Percy street. Brick, 1 story,

92x24 feet, slag roof.

Garage, 5108 Chestnut street, \$335. D. H. Hurt (O), on premises. Chas. H. Purnell & Co. (C), 922 South Fifteenth street. Brick, 1 story, 12x17 feet, slag roof.

Chapel, Stonehouse lane and Penna. R. R., \$3,000. Convocation of South Philadelphia of P. E. Church (O), 255 South Third street. A. MacTavish (C), 1511 Pine street. Frame, 1 story, 32x24 feet, shingle roof.

Dwellings (2), Lawnton and Hermitage sts., \$5,600. James Stewart (O and C), 4552 Mann-yunk avenue. Brick, 2 stories, 16x41 feet, slag roof.

Garage, Lawrence and Ruscomb streets, \$400. James Butler (O), 4923 North Lawrence street. Wm. Schmit (C), 4936 W. Fairhill street. Brick, 1 story, 16x25 feet, slag roof.

Dwellings (2), 1208-10 Wakeling st., \$12.

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Tasker Street Wharf, Delaware River, Philadelphia.

000. C. West & Co. (O and C), Oxford and Wakeling streets. Brick, 2 stories, 16x54 feet, slate roof, hot air heating.

Dwelling, Bells Mill road and Perkiomer turnpike, \$10,000. John C. Gilpin (O), West End Trust Building. Chas. Gilpin (C), Harrison Building. Stone, 2 stories, 40x33 feet, slate roof, steam heating.

Dwellings (19), Twenty-first and Spencer streets, \$43,700. I. K. Davis (O and C), 2400 W. Oakdale street. Brick, 2 stories, 15x29 feet, slag roof, steam heating.

House and Paint Shop, 424-26 Memphis st.,

\$3,500. Brownhill Kramer (O), 406 Memphis street. Willard Myers (C), 2000 E. Cambria street. Brick, 1 story, 30x80 feet, steel sash, cement floor and slag roof.

Dwelling, Cottman and Tabor avenues, \$3,500. Rob. Winkler (O), 3128 Chestnut street. Neveling Bros. (C), 32 Robbins avenue. Stone and wood, 2 stories, 22x28 feet, shingle roof, hot water heating.

Dwellings (2), Erdrick and Howell streets, \$3,100. W. Macknet (O and C), 5900 Erdrick street. Frame, 1 story, 26x36 feet, shingle roof.

Office, Walnut Lane and Main street, \$1,100. Wm. Spink (O and C), on premises. Brick, second story addition, 11x18 feet.

Rooming Apartment, 238 South Eighth street, \$900. Mrs. Gaulson (O), 2107 West Ontario street. C. Hoffman (C), 210 Dickinson street. Fire escape.

Factory, 347-49 North Fourth street, \$400. Provident Life and Trust Co. (O), Fourth and Chestnut streets. Frank Riedert & Sons (C), 1507 Germantown avenue. Alterations.

Store, 5-7 South Thirteenth street, \$500. John Sharp Estate (O), Provident Life and Trust Co. A. H. Williams Cons (C), 419 Locust street. Alterations to brick wall.

Laundry, Wissahickon avenue and Westview avenue, \$640. George Strawbridge (O), on premises. M. S. Oberhotzer (C), 5524 Pulaski avenue. Brick, 1 story, 12x16 feet, and alterations.

Store and Dwelling, 817 North Third street, \$885. G. C. Seidie Co. (O), Fourth and Callowhill streets. Charles Glashofer (C), 1119 Germantown avenue. New flush bulk and alterations.

Shop, 1226 North Howard street, \$550. Mr. Cehramer (O), on premises. Charles Glashofer (C), 1119 Germantown avenue. New brick wall.

Factory, Trenton avenue and Rush street, \$6,000. J. D. Grover & Sons Co. (O), Somerset and Tulip streets. J. F. Welsh (C), 1723 West Girard avenue. Brick, 2 stories, 37x80 feet, slag roof, maple floors.

Alterations and Additions

Storage, Fifteenth and Reed streets, \$800. Piericci Bros. (O), 1333 Reed street. D. Misantone (C), 1428 South Fifteenth street. Brick, second and third story addition, 18x38 feet, slag roof.

Store and Hall Building, 405 North Sixty-fourth street, \$500. F. Iuanozelli (O), 549 N. Sixty-third street. G. H. Evans (C), 6144 Webster street. Fire tower in rear.

Warehouse, 2324-26-28 Market street, \$5,600. A. Douredoure (O and C), on premises. Interior alterations.

Store and Dwelling, 216 South Fifty-sixth street, \$300. F. J. McYoung (O), 630 South Fifty-sixth street. F. E. Esbiorusen (C), 1700 North Sixtieth street. Bulk window plastering, metal lath.

Stable, 2638 Cabot street, \$300. W. C. Dehtre (O and C), on premises. Brick, 2 story back addition, 18x36 feet.

Warehouse, 246 South Front street, \$800. Cordella Bros. (O), Twenty-fourth and Spring Garden streets. Herman Voight (C), Twenty-eighth and Thompson streets. Alterations.

Storage Building, Swanson and Queen sts., \$2,000. Joseph Hanse (O), 105 Walnut street. Thayer Co. (C), 1233 Ludlow street. Brick wall and alterations.

Dwelling, 309 E. Grovers lane, \$375. Mrs. J. E. Sims (O), on premises. W. John Stevens, Inc. (C), Wyncote, Pa. Alterations for new bath room.

Dwelling, 1124 Watkins street, \$600. Joe Genati (O), on premises. M. Cipriano (C), 1134 Watkins street. Brick, 2 stories, 13x16 feet, slag roof.

Dwelling, 1449 North Twelfth street, \$2125. Phila. Homemade Bread Co. (O), 1433 North Twelfth street. Thos. C. Trafford (C), 1613 Sansom street. Brick, 1 story, 15x42 feet.

Store, 6137-39 Woodland avenue, \$7,500. John W. Camac (O), 6211 Woodland avenue. Wm. J. Erwin (C), 5927 Kingsessing avenue. Brick, 1 story, 30x46 feet, slag roof, skylight and alterations.

Dwelling, 627 South Sixteenth street, \$600. G. Dickerson (O), on premises. Wm. J. Robinson (C), 1508 Lombard street. Brick, 1 story, 11x12 feet, slag roof.

Store and Dwelling, 2803-05 Kensington avenue, \$3,400. Wm. J. Cliffe (O), Kensington and Somerset street. Huskey Mfg. Co. (C), Howard and Columbia avenue. Alterations.

Store, 1340 South street, \$300. T. Carson (O), 1213 South Broad street. Chas. H. S. Zetley (C), Pine and Quince streets. Flush bulk.

Stable, 410 South Twenty-third street, \$500. B. Hand (O), on premises. Chas. H. S. Zetley (C), Pine and Quince streets. Brick, 1 story, 15x5 feet, slag roof.

Dwellings (2), 1704-06 South Fourth street, \$800. B. Paul (O), 712 Pears street. J. Gold (C), 2028 South Fifth street. Brick, 1 story, 16x42 feet, slag roof.

Nurses Home, Fifteenth and Race streets, \$26,000. Hahneman Hospital (O), on premises. Sutton & Stephenson (C), 1317-19 Washington avenue. Brick, 5 stories, 21x38 feet, slag roof, reinforced concrete.

Dwelling, 1936 South Sartain street, \$1,150. Somerset B. & L. Asso. (O), Moyamensing avenue and Ellsworth street. M. Montemurri (C), 736 Annin street. Brick, 1 story, 12x12 feet, slag roof, and alterations.

Stable and Garage, 2013 Market street, \$6,500. J. Herbert Schall (O), 2011 Market st. Stacy Reeves & Sons (C). Brick, 2 stories, 21x107 feet, metal frames and sash, slag roof, cement floor.

Shop, 1210-12 South Nineteenth street, \$1,000. I. Berkman (O), on premises. H. F. Dinkelacker (C), 227 North Farson street. Brick, 1 story, 16x27 feet, slag roof.

Factory, 1736 North Mascher street, \$1,000. A. C. Eichler & Co. (O). F. Achuff (C), 1600 North Front street. New brick wall.

Dwelling, 4806 Springfield street, \$1,000. Dr. Zeiher (O), on premises. J. Borden & Bro. (C), 637 North Nineteenth street. Hot water heating plant.

Sales Building, 847 North Broad street, \$2,500. Heyman Bros. (O), Widener Building. J. Borden & Bro. (C), 637 North Nineteenth street. Low pressure steam heating.

Shop, Emler and Carpenter streets, \$4,000. Germantown Auto Club (O), on premises. J. Borden & Bro. (C), 637 North Nineteenth street. Low pressure steam heating plant.

Dwelling, 809 Corinthian avenue, \$450. E. Rushton (O), 1204 Myrtle street. W. G. Snyder (C), 4502 Springfield avenue. Fire damages.

Dwelling, 446 Glenwood avenue, \$1,100. F. Shutz (O), on premises. Wm. Scholderer (C), 3337 North Fifth street. Brick, 2 stories, 12x11 feet.

Dwelling, 8751 Frankford avenue, \$300. Mrs. H. Nielson (O), on premises. W. J. Williams (C), 9228 Walker street. Frame, 2 stories, 12x6 feet.

Garage, Thorp's Lane and Wister street, \$800. M. Silkerman (O and C), 36 South Sixty-first street. Brick, 1 story, 17x45 feet, slag roof.

Open Shed, 4014-16 Ridge avenue, \$700. Manayunk Waist and Metal Co. (O), on premises. Morris Golden (C), 2801 West Allegheny avenue. Shed, 16x70 feet, 15 feet high.

Dwellings (2), 243-45 South Camac street, \$980. Ed. A. Devlin (O), Continental Hotel. Anastasi Bros. (C), 1014 Mountain street. Raise roof and alterations.

Proposals

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C. October 12, 1917.—Sealed proposals will be opened in this office at 3 p. m., November 12, 1917, for the construction complete of two additional dolphins and the furnishing and installing complete of thirty-two spring buffers at the wharf of the Quarantine Station at Tampa Bay, Florida. Drawings and specifications may be obtained from the custodian at Tampa Bay, Florida, or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C. October 12, 1917.—Sealed proposals will be opened at this office at 3 p. m., November 23, 1917, for the construction of the United States post office at Woodbury, N. J. Drawings and specifications may be obtained from the custodian of the site at Woodbury, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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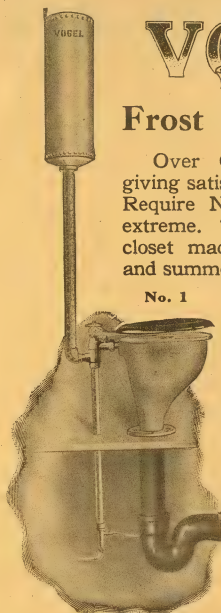
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Vol. XXXII., No. 43
October 24, 1917

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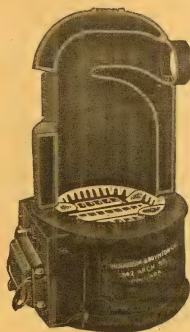
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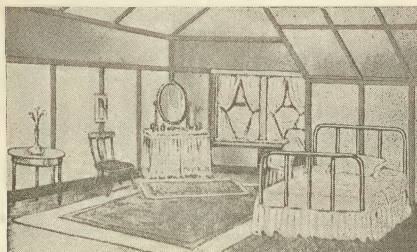
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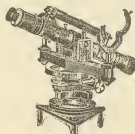
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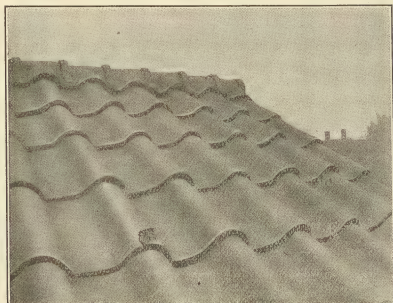
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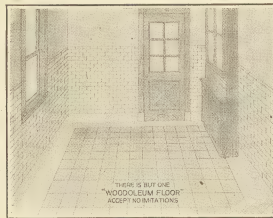
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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October 24, 1917

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As The Editor Sees It



OPERATIVE building has renewed its activity to some extent in New York City, in various cities of the Middle West and throughout the Southern States. While conditions in the local field are still dull, and from present standards are likely to continue far from encouraging, there is a stirring, here and there, of new projects. There is no doubt whatsoever that the demand real estate men report for new houses exceeds anything of the kind ever known in the history of the trade. In many sections of Philadelphia it is not possible to buy with the usual range as to choice. The best real estate men are able to offer prospective purchasers—and these are insistent and numerous,—are isolated units for the most part held at a prohibitive premium over normal levels of value. Renting opportunities, in the modern dwelling line, have practically ceased to exist. Brokers report waiting lists of desirable tenants by the score whose wants they are utterly unable to supply.

One of the immediate results of this scarcity of new dwellings is a sharp and apparently progressive advance in renting and sale figures. Properties that lagged a few years back at \$3,500 are selling to-day with ease at from \$4,000 to \$4,200. The type of house that could be had a year or two back at \$4,000 sells readily to-day at \$4,500 to \$4,800. Rents have jumped in the newer and more attractive sections from an average level of a few years back of \$25 to an

average level of \$30 to \$35. The opportunity that exists for operative work in the \$4,000 to \$4,500 class of house surpasses anything the oldest builders in the trade are able to recall. It seems a pity that with a market waiting, a demand actually pounding for relief, the disposition should still assert itself to hang back and await developments. That the expected developments—a considerable drop in material prices with better conditions as to deliveries and labor—are not even a remote possibility seems now to be the settled conviction of men with knowledge of the general outlook.

* * *

IT is pointed out by men who have given study to contemporary conditions that should the war abroad come to a stop to-morrow there would be presented no sound argument upon which to base a hope that the price of materials and labor would undergo any considerable recession inside of three years. The local demands, an accumulative condition due to the stoppage of operative and investment activity over the past two years with the demand which is certain to deluge this country from the desolated district abroad make it reasonably certain that for years in the wake of the war itself there will be no marked recession in material or other structural costs. In New York City, where the builders have been for some weeks busy with an inquiry into the causes, real and imaginary, of the depression which has overtaken certain

lines of building, there is observable a renewed confidence which is finding expression in the breaking-ground on projects long held in abeyance. It is sincerely to be hoped that something of this spirit may communicate itself to local operators. The one factor necessary, at this time, to a complete restoration of confidence is a return to at least sporadic activity. Success is contagious. We feel absolutely confident that with the assistance of a few intrepid spirits the local operative field would find its way back to normal in no time.

* * *

READERS OF THE GUIDE will, I am sure, recall the strong, sane, helpful and informative articles dealing with various phases of the building game that have appeared in these pages from time to time from the pen of Mr. Theodore Starrett. These articles were written for *Architecture and Building*, a New York magazine of which Mr. Starrett has, for some years, been a contributing editor. Those of you who recall the articles will be as shocked, perhaps, as I am to learn of the sudden death of Mr. Starrett at his home in Prospect Plains, N. J. Mr. Starrett did not write the high-brow order of copy, he called a spade a spade and couched his opinions in blunt, everyday English, but he knew the building game as no other writer in American trade journalism ever pretended to know it and he wrote of it with a sureness of his subject that made his articles

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as authoritative as to fact as they were readable and entertaining. A brief sketch of Mr. Starrett, for which I acknowledge my indebtedness to the *New York Record and Guide*, appears on another page. In the demise of Theodore Starrett the building industry of his country loses one of its bright and commanding minds, a master builder in the finest sense of the term and a citizen worthy of the high place he occupied in American affairs.

THE annual meeting of Philadelphia Chapter of the American Institute of Architects was held at the Meridian Club. The balloting for officers resulted in the selection of the following: J. P. S. Sinkler, president; Evelyn L. Stewardson, first vice-president; Horace Wells Sellers, second vice-president; Edward A. Crane, secretary; George I. Lovatt, treasurer, and H. Bartol, register, recorder and librarian. The election was followed by an informal luncheon.

Charles L. Borie has been designated chairman of a committee of ten to interest local architects in subscriptions to the second Liberty Loan. The architectural profession is, naturally, ambitious to make a creditable showing and will welcome the fullest co-operation on the part of local practitioners with the work of the committee.

UNDER the head "Build While We Fight," the *New York Record and Guide*, prints the following very timely and pertinent editorial:

"Since the entry of the United States into the conflict for 'World Democracy' there has been a growing attitude of hesitancy on the part of the building interests to postpone active construction until the conclusion of hostilities. A strong feeling has been generated and fostered that so long as the nation is engaged in warfare, other industrial activities, except those actually essential to the prosecution of the conflict be side-tracked, in a determined effort to bring the war to a speedy victory. The result is exactly what every patriotic citizen is interested in, but the means to the end, as planned by the exponents of a cessation of building endeavor until the war is ended, is, we think, open to impeachment.

"There is no legitimate reason why structural activities should be abruptly stopped for the period of the war. In fact, there are countless reasons why construction work should be speeded up to the ultimate of efficiency. This is true particularly at this moment when the future of the nation looms up so favorably in world commerce and politics.

"In order to keep abreast with the head of the procession in the march of world events it has become the bounden duty of the United States to add con-

siderably to its constructive efforts, both at home and abroad. National, we should be able to build as well as to fight. Both should be accomplished to simultaneously. The greatest opportunity of all time is unfolding to us as a world power, and we must not be lacking in conception or ambition to make the most of the present and prospective advantages.

TO this end let public and private building proceed in volume at least as great if not greater than before the entry into the war. The production and handling of structural commodities and building and engineering construction work of all descriptions are notably among the foremost of our national industries. Any tendency to halt or postpone building activities at the present time is plainly inconsistent with maintaining that prosperity that is our national birthright. Investors, speculative builders, architects and all other branches of the building fraternity should by no means permit of stagnation to an industry so important to their life, but should undoubtedly proceed with their contemplated structural improvements, and, by virtue of the exist-

ing demand in all sections of the country for additional structures, redouble their efforts to revive building activities. Commonwealths, municipalities, public utilities and private interests generally should inject life into the projects that have been held in abeyance since the outbreak of hostilities.

THE brick, cement, lime, lumber, structural steel and other building material industries are basic. Neither Federal regulation nor railroad or other transportation restrictions should be permitted to interfere with them. The progress and stability of these basic industries means protection to our entire national economic fabric, as all economic progress is dependent upon industrial and commercial expansion. As these phases of national prosperity are manifestly impossible without facilities for increasing the growth of the dependent interests, building operations must of necessity be allowed to proceed naturally and without obstruction. Without this effort, the result will possibly be a serious embarrassment to the United States in financing and prosecuting the war to a speedy and victorious conclusion."

EDITORIAL NOTES

Recently there has been noticeable a marked improvement in the speculative building situation. There are a number of projects of this character on the boards in the offices of prominent architects and some new operations have already been started. The intense demand for living accommodations that exists in practically all sections, coupled with an easier material market and generally improved building conditions, has undoubtedly influenced investors and speculative builders to return to life many of the projects that have been in abeyance since the outbreak of the war and prepare the preliminary plans for entirely new improvements.

The total production of petroleum in the United States in 1916, according to a report by the United States Geological Survey, amounted to 300,767,158 barrels of 42 gallons each, or approximately 65 per cent. of the world's production. Next in oil production was Russia, with 72,801,110 barrels, and Mexico was third, with 39,817,402 barrels.

Conditions in the building material markets are daily becoming more settled and this will have considerable to do with an increase in the volume of building work undertaken during the winter months. Practically all commodities are more stable than they have been for a period of months. Important fluctuations in prices during the past week were negligible and the building trade is working

around to a feeling of greater safety from the market situation. The dearth of new structural projects has undoubtedly had considerable influence on the material markets and the lack of demand is plainly reflected in the stabilized prices.

The American Civic Association will hold its thirteenth annual convention at St. Louis, Mo., on October 22-24. City planning and city development will be among the subjects considered, and there is to be a discussion on the subject of the best means of carrying on civic improvement work while the country is at war. The secretary of the association is R. B. Watrous, 914 Union Trust Building, St. Louis, Mo.

Hermann H. Klinsmann has been appointed as the Minneapolis, Minn., agent of the Bicalky Fan Co., Buffalo, N. Y., and will in the future take care of the interests of the Bicalky roof fan ventilators in that city and the surrounding territory.

H. J. Richardson, recently with the New England Westinghouse Co. as manager of its gauge department, has been appointed works engineer for the Berger Manufacturing Co. His work includes the power plant, new construction and maintenance and repair of manufacturing equipment and buildings.

Architects of Springfield, O., have announced

ed that they favor the adoption of a building code for the city which will prevent a recurrence of such accidents as that at the Columbia Theatre, when four lives were lost and eight others were injured. The general opinion among the architects is that care should be used in adopting the provisions in the code and that it should be so written as to conform to the conditions peculiar to this city. They say that the benefits of such an ordinance will be many, that it will provide a greater margin of safety and stimulate the building trade because of the rigid adherence to the best building practice, a closer supervision of plans and better inspection of jobs in course of construction. Contractors also favor its adoption, saying that it will benefit their business as well as operate to the advantage of persons planning new structures.

Electrical Supply Jobbers' Association will hold its semi-annual meeting at the Hotel Sinton, Cincinnati, O., November 13-15.

From November 28 to December 8, 1917, the Klingman Exhibition Building in Grand Rapids will be the scene of high class exposition, known as the First Annual Grand Rapids National Better Homes Show, presented under the auspices of the Grand Rapids Association of Commerce, the Greater Grand Rapids Association, the Grand Rapids Art Association and a score of other leading civic, industrial and social organizations. The special features of an educational nature will include the Art Extension Course of the Chicago Art Institute, Mr. Ross Crane in charge. It is also expected that Dr. C. L. Haney, of the New York Art Institute; Mr. C. R. Clifford, eminent in decorative circles; Mr. Henry W. Frohne, editor of "Good Furniture;" Mr. William A. Boring, Professor of Architecture of Columbia College, and other national experts and leaders in Better Homes movements will talk during the exposition.

American Iron and Steel Institute will hold its autumn meeting at the Hotel Sinton, Cincinnati, October 26 and 27.

The Engineer Company, New York City, is now the sole builder of the Turner Baffle Wall. The B. W. R. Company, which formerly handled this wall, has retired from business and its president, J. W. Putnam, has become manager of the Baffle Wall department of the Engineer Company, and the entire plant and organization of the B. W. R. Company has been taken by the Engineer Company.

The New Jersey Board of Boiler Rules, at a meeting held in Newark some time ago, adopted the A. S. M. E. Boiler Code for new installations of power boiler and heating boilers, to go into effect November 1, 1917. Provision is to be made by the board for special consideration of boiler contracts and constructions entered upon before that date. The board has held a number of public hearings, and at its next meeting is expected to take

final action in the adoption of a code for regulation of existing boiler installations.

National Machine Tool Builders' Association will hold its sixteenth annual convention at the Hotel Astor, New York City, on Tuesday and Wednesday, October 30 and 31.

Crane Packing Company of Chicago, manufacturers of the "John Crane" flexible metallic packing for all vapors and liquids, announces the establishment of their Eastern office in the Woolworth Building, New York City. Their engineer, A. W. Payne, has been placed in charge of this branch.

C. D. Cooley Company, architect, has moved from 37 East Twenty-eighth street, to 41 Park Row, New York City.

Kielely, Mueller Company, New York City, announces the appointment of F. J. Miller to their selling force. Mr. Miller has for many years been engaged in selling steam specialties and is well known in power plant circles.

Hopkins & McEntee, architects, have moved their offices from 37 East Twenty-eighth street, to 41 Park Row, New York City.

Climax Smoke Preventor Company, of Boston, Mass., announces through B. L. Ames, general manager, the taking over of the business and management of the Monarch Blower Company, Troy, N. Y. Improved facilities for the manufacture of Monarch blowers are being perfected and a large addition is being made to the Climax selling force.

To fill vacancies about to occur by reason of the expiration of the terms of seven members of its Board of Directors and two unexpired terms the Builders' Exchange of Philadelphia, at a meeting last week nominated the following: Joseph M. Steele, Pringle Borthwick, A. L. Carhart, John R. Wiggins, H. H. Burrell, J. W. Cowperthwait, John Sinn, Harold Smith, John F. T. Lewis, Harry Boon, W. F. McCarthy, Charles Fowier, R. F. Black, C. A. Kuehule, S. F. Reeves, C. S. French, P. S. Smith, F. M. Harris, Jr., A. G. Berwinger, James Pierce, W. F. Sullivan, Charles B. Kates, John C. Humphreys, C. Belfi, C. R. Watson, Louis S. DeLone, H. B. Auchy, Joseph E. Houseworth, and William Turner. The election will take place on the third Tuesday of November.

J. H. Purdy, of New York City, was re-elected president of the Pennsylvania Water Works Association for his third term at the opening of the 22nd annual convention at Atlantic City. Other officers are: First vice-president, J. B. Horn, of Vandergrift; second vice president, Harry Bolton, of Houtzdale; third vice-president, H. E. Ahrens, of Reading; secretary and treasurer, F. S. Purviance, of Pittsburgh; executive committee, W. C. Hawley, of Wilkesburg; C. Q. McWilliams, of Shamokin; W. J. Yeager, of Lewistown;

L. E. Smith, of Greensburg, and P. A. Small, of York.

In an order dismissing the suit attacking the contract for the Free Public Library building on the Parkway at Nineteenth street, Judge Audenried sustained ordinances of Councils, passed in 1894 and 1895, providing that all stone used in public buildings must be cut within the city limits. The suit was directed against Mayor Smith, Director Datesman, Councils, the trustees of the library and the contracting firm of Gill & Sons, who were the successful bidders for the work. The amount of the contract was \$2,535,000. In this suit it was alleged that the provisions of the ordinance with reference to cutting all stone used in the construction of public buildings within the city limits were in violation of the interstate laws and are against the Constitution.

It was further pointed out that the limestone and granite required for the new building could not be obtained in Philadelphia, and, therefore, would have to be shipped in the rough at an additional expense. It was stated in the bill of equity that the George A. Fuller Company was also a bidder for the work, and that this firm estimated on the stone cut in and outside of the city. Their bid was \$120,000 less than the price at which the contract was awarded to Gill & Sons. It was also declared that a number of outside firms were ready to bid and make the city an allowance, provided it were legally permissible to cut the stone without regard to the provisions of the two ordinances referred to. Judge Audenried, however, finds that the ordinances are valid and that the award of the contract to Gill & Sons must stand.

The building of public schools in this city by the Board of Education is at a standstill, save for three annexes, notwithstanding the number of pupils increases steadily and 20,000 pupils are on part time. One reason given for stopping building operations is the high cost of materials. It has been necessary for the Board to close ten of the elementary shops. The reason for closing is the lack of teachers, many of those who had charge of these classes having enlisted for military service. It is impossible to get substitute teachers for these schools, according to Secretary Dick, because of the fact that substitutes are paid only \$2 a day, and carpenters will not work for this sum.

It isn't enough to just advertise. There is competition these days in advertising, as in other things. You must make your advertising attractive. You must make it say something,—something definite, original and convincing. If you lack faith in your own ability to do this, let us do it for you. Give us the facts. Talk to us just as you would to a prospective buyer. That is the kind of talk that makes profitable advertising. We'll look after the verbal frills. That's our business.

HARDWARE MEN IN CONVENTION

American Hardware Manufacturers' Association in Convention at the Marlborough-Blenheim, at Atlantic City, Consider Topics of Trade Importance—Opposition Registered to Government Price-Fixing—Scarcity of Labor Presages Higher Prices in All Lines.

Warning was given to the hardware industry by President Fayette R. Plumb, of Philadelphia, in addressing the opening session of the American Hardware Manufacturers' Association convention at the Marlborough-Blenheim, at Atlantic City, that prices are going up all along the line, especially the cost of labor, as the war goes on, and that shortly it will be a matter of extreme difficulty to obtain raw materials. His message is likewise of special significance to the general public, which may look for a corresponding increase in the cost of its hardware necessities.

"We all know enough about conditions to realize that the situation is going to grow steadily worse," he declared. "The appropriations already made by Congress are to provide for another million men under arms by next June. It is proposed to raise the army to over four million as fast as the men can be supplied and trained. This will mean not only the men withdrawn from each factory, but the competition for labor to replace these men will arise. This shortage of labor will advance the price of labor, and this effect will be heightened by the advancing cost of living. Don't let any of us fool ourselves by thinking because the cost of labor is very high now that our employees are satisfied, that the top has been reached. It has not and will not as long as the war lasts."

Mr. Plumb declared that despite the voluntary fixing of the price of steel bars at \$2.90, they are as scarce at this price as \$2.00 coal. Before many months it will be impossible to secure steel for any purpose except war requirements, he stated, and it won't be a question of the price of steel or the price of hardware, but simply a question as to how the small amount can be distributed to the best advantage.

About 1,200 delegates from all sections of the country, representing the manufacturing and the wholesale parts of the hardware industry were in attendance at the convention, and they gave a unanimous pledge of support and co-operation to the Government. The committee on governmental activities, headed by C. W. Asbury, of Philadelphia, urged the appointment of a special war service committee of men thoroughly representative of the hardware industry who will give themselves, their talents and their knowledge to the single purpose of helpfulness to the Government. The committee is to form a point of contact between the Government and the hardware industry in the United States.

A plea for the cash discount premium was made by T. James T. Fernley, of Philadel-

phia, secretary-treasurer of the wholesalers' association, who declared that despite the agitation against it, the 2 per cent. for cash in ten days policy is rapidly becoming general. He also reported that trade acceptances are coming into more general use, and that the fear they would do away with cash payments is disappearing.

Under the influence of the economy campaign that is sweeping the country, there is apparent a noticeable reduction in the variety of hardware manufactured, Mr. Fernley stated. No products but those absolutely essential to the requirements of the consumer and the Government should be manufactured, he stated. Mr. Fernley also set forth the usefulness of the wholesaler as a middleman in the hardware industry by stating that when goods became scarce by virtue of the war's demands and the retailers had failed to anticipate the shortage, the wholesaler showed that without his foresight the public would have been unable to obtain his actual requirements.

Objection to Government regulation of prices was registered when the Hardware men refused to endorse the proposal of the United States Chamber of Commerce War Convention held at Atlantic City a month ago. The hardware industry is different from any other, it was maintained, in that its products run into the thousands. It was impossible to put it on the same plane with the steel, coal or meat industry.

Fear of a charge of lack of patriotism restrained the manufacturers for some little time, but after a strenuous debate the formal action was unanimously taken. The first vote was on the question of additional legislation to create authority to control prices during the war, and it was emphatically negative. The second was on the proposal for authority for control of prices to extend to all articles of importance in basic industry as well as in war, and which enter into the necessities of every-day life. This also was negated, the position being taken that the President already has such power.

Two other proposals in the group proposed the establishment of price control on raw material and finished products, and control of prices to the public as well as to the Government. Again the negative vote was registered, and, as was the case with the first proposition, the whole principle of control was objected to when the convention voted against the establishment of a small board to fix prices, which should be appointed by the President.

This action by the hardware manufacturers is said to be the first withdrawal from the advanced step taken by big business when it came out at the war convention recently in favor of full Federal control of all prices. Earlier in the day the creation of a Federal Industrial Reserve through Congressional enactment, which would have the same full and general powers provided in the selective draft

system for the army, to conscript men exempted from military service for service in the industrial work of the nation, was advocated.

The resolution urging this action upon Congress set forth that increased production to keep the military forces of the country supplied with the requirements of war, as well as to provide for home needs, was second only to the need for an army which the conscription provided for. The handling of the industrial reserve would be placed in the hands of a Federal employment commission. Voluntary enlistment in the industrial reserve would be permitted, but such volunteers should not be exempted from military call if they were of military availability. The whole principle underlying the plan is to organize industry as effectively as the military forces are organized, and the resolution emphasized the place that women must take in industry. Copies of the resolution were forwarded to President Wilson, the members of the Cabinet and to both houses of Congress.

The committee which offered the resolution admitted that organized labor is now strenuously opposed to such legislation, but declared that the weight of influence of representative business throughout the country should and could be brought to bear upon Congress at its convention in December to secure it. The measure would place labor as completely under government control as are the men in the army, it was stated. One manufacturer declared that "what we need is more labor leaders and fewer labor agitators."

The announcement that the industry in Pittsburgh was successful with the "open shop," made prior to the presentation of the resolution urging governing control of labor, drew from the convention a demonstrative expression of enthusiasm. The convention was to hear Dr. Joseph H. Willis of the University of Pennsylvania speak on labor problems and how to replace men drafted into the army, but he was unable to leave his duties with the Federal aviation department, and his paper was read by Dr. W. W. Williams of the Wharton School. Because of the confidential information from the English commission which it contained, it was impounded. It had to do especially with the part the women are playing in British industry, especially in munitions plants, and where unskilled labor is employed. Dr. Williams stated that the labor problem is more difficult here because the organization of labor is more complete in this country.

"As I see it, the one element falling down on the job at this time is labor," C. W. Asbury, of Philadelphia, declared. "I am not referring to organized labor, but to all labor. There is a general disposition to loaf apparent. There is current in Washington an inclination to create a labor industrial board. If we want to include all slackers we must go to the Waldorf-Astoria, the Bellevue-Stratford and the Ritz, and get them all. I am referring to that class as much as I am to the working man."

The manufacturers were visited by a delegation from the jobbers, who are also in con-

vention. The matter of more general use of the two per cent. cash discount privilege was

urged upon the manufacturers, but no action was taken on the question.

labor, which is denied him here, is terminated, crowned with his reward—although too soon removed from the bosom of his friends."

MR. THEODORE STARRETT, NATIONAL FIGURE IN BUILDING FIELD, DIES

Founder of the Thompson-Starrett Company, Nationally Recognized Authority on Every Phase of Building Construction and Widely-Known Writer on Topics of Structural Trade Interest.—An Expert on Skyscraper Construction.

With the death of Theodore Starrett, at his home in Prospect Plains, N. J., the building fraternity of this country lost a figure of national prominence and importance. Mr. Starrett was one of the founders of the Thompson-Starrett Company, building contractors, and was considered generally a one of the ablest engineers and constructors of modern office buildings and public structures in the United States. He had enjoyed excellent health until about one month ago, when he was stricken with opoplexy, which finally caused his death.

Mr. Starrett was born in Kansas, about fifty-three years ago, and received his education in the public schools, the University of Kansas and the Lake Forest University in Illinois. His mother is widely known as an educator and is the author of numerous books for girls. Mrs. Starrett was notable as the founder of the Kenwood Institute and also Mrs. Starrett's Classical School for Girls, in Chicago.

The early building experience of Mr. Starrett was obtained in the offices of Burnham & Root, builders, of Chicago, where he was placed in charge of important operations, involving immense expenditures. His first really notable work was as one of the engineers engaged in the construction of the World's Fair buildings in Chicago, after the completion of which he came to New York City imbued with ideas as to the future possibilities of skyscraper construction.

About twenty years ago he was instrumental in founding the firm of Thompson-Starrett Company, which since has made for itself a world-wide as well as national reputation in the erection of modern steel-skeleton skyscrapers and public and semi-public buildings in all parts of the country. He retired from this concern about seven years ago in order to undertake building construction independently.

During his active building career, Mr. Starrett erected more than one hundred and fifty fireproof structures and skyscrapers in New York and other large cities. Among these buildings are numbered some of the most interesting, artistic and elaborate of the notable tall structures of this country. He was particularly proud of his achievement in the construction of the railroad terminal at Washington, D. C.,

and the station for the Pennsylvania Railroad at Columbus, Ohio.

Considered as one of the leading authorities on the construction of skyscrapers, Mr. Starrett was frequently asked to contribute articles on this subject for publication in prominent newspapers and magazines. His writing was fluent and his style interesting to both lay interests and professional builders. Some of his papers have been published in two volumes under the titles, "Light on Dark Places" and "Skyscraper Building."

Mr. Starrett was a member of a large family of contractors and builders, all of whom have become prominent in their respective lines. He was the brother of Major William A. Starrett, Constructing Quartermaster General of the United States Army, in charge of the construction of army cantonments and the chairman of the Committee on Building Construction of the Council of National Defense. Another brother is Paul Starrett, president of the Geo. A. Fuller Company, builders. Goldwin Starrett, head of the architectural firm of Starrett & Van Vleck, and Ralph Starrett, of the firm of Starrett & Gross, builders, are other brothers.

He is survived by his widow, formerly Miss Elsie Ayers, of New York City, and two sons by an earlier marriage, Robert O. Starrett, of Nevada City, Nevada, and Sergeant Theodore Starrett, Jr., at present stationed at Fort Shelby.

The Executive Committee of the Hedden, Pearson, Starrett Corporation, on behalf of its directors, desires to express its sincere regret for the loss which the corporation sustains by the death of Mr. Theodore Starrett.

John B. Clermont, speaking on behalf of the Executive Committee of the corporation, said:

"Mr. Starrett's ongenial personality stood forth clearly in the wide circles of the building and engineering industries. In the field of his endeavors he has achieved an enviable reputation for activity, versatility and courage. He shared with his friends the full measure of his success. They and the entire community suffer a personal loss by his demise.

"Mr. Starrett had looked forward to a great future in combining forces with the Hedden, Pearson, Starrett Corporation. The

BUILDING STATISTICS.

Building and engineering contracts awarded in the section north of the Ohio and east of the Missouri Rivers—namely, New York, New Jersey, Pennsylvania, New England, Maryland, Delaware, and the District of Columbia, Virginia, West Virginia, Ohio, Illinois, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and Eastern Kansas, from January 1 to October 1 totaled \$1,278,640,426, which is the greatest aggregate amount expended for operations of this character during the past eight years.

Building operations generally show a decline, and the increase already noted is due largely to the tremendous engineering projects now going on throughout the country, including Government and municipal work.

In Greater New York, during the month of September, 154 contracts were awarded for residential work, aggregating \$3,180,000, as compared with 166 residences in August, totaling \$3,973,000. During September 15 manufacturing buildings were projected, totaling \$179,000, as against 18 in August, involving \$760,000, and 104 miscellaneous buildings, \$4,196,000, as against 126 miscellaneous operations, involving \$4,478,000.

The contracts awarded for New York State during September comprise 350 residences, \$1,805,000; 46 manufacturing buildings, \$1,119,000, and 152 miscellaneous structures, \$16, mobilization construction. This latter work \$14,000. The above figures do not include New York State and New Jersey involves 22 operations, aggregating \$4,657,000.

The total amount of building and engineering operations in New York State and Northern New Jersey, for which contracts were awarded from January 1 to October 1, 1917, is \$247,355,000, as compared to \$180,803,500 in 1916, \$120,400,500 in 1915, and \$100,266,000 in 1914. This latter year reached the low mark since 1910.

COMBATS HOUSING NEEDS.

The Board of Trade of Easton, Pa., sets a good example in adopting a vigorous resolution and appointing a committee with power to act in regard to the problem of scarcity of housing accommodations in that city, coupled with increase in home rentals.

If every city in the country beset by a similar combination of circumstances would grapple squarely with the situation, they would soon discover the truth that building material price increases are no larger than similar appreciations in the cost of all commodities, and the value of individual home building as compared with the expensiveness of further extension of the landlord system could be pressed home with most effective emphasis.—"Building Supply News."

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Elevated Stations (4), contracts Nos. 533 and 534, Philadelphia. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Reinforced concrete, stone, brick and terra cotta, 2 stories, 60x20 feet, tile and slag roof, cement floors, hollow tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal sash and doors, fire doors, iron stairs, cement floors, hollow tile, safety treads, roof ventilators, metal ceilings, wire work, ornamental iron work. Owners taking bids, due October 30th. E. C. Durell, 1713 North Twenty-fourth street; Edw. Atkins, 249 S. Twenty-fourth street; Wm. R. Dougherty, 1610 Sansom street; Ketcham & McQuade, 1029 Brown street; H. E. Baton, Twelfth and Sansom streets; P. W. Van Loon, Denckla Building, all of Philadelphia, and Connors Bros. Co., 64 West Eighty-eighth street, New York City, additional bidders.

Salvage Storage Building, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C., Frame, 1 story, 90x80 feet, ready roof, plan floors. Owners, care of Supply Department, Navy Yard, Philadelphia, have received bids.

Apartment House (The Warrington), Thirty-eighth and Chestnut street. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, name withheld. Stone foundations, brick, Indiana limestone and steel and concrete, 10 stories, 60x150 feet, fire-proof construction, tile and slag roof, gravity steam heating, electric lighting, refrigerating plant, tile and marble work, rolled steel sash, fire doors and fire tower, hardwood and yellow pine floors, wire lath, elevators, ornamental iron work, plumbing. Architects and Alex. Chambley, Twenty-first and Summer streets, are taking sub-bids, due as soon as possible.

Store Building, 1627 Chestnut street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, name withheld. Brick and Indiana limestone, 3 stories, 18x155 feet, slag roof, maple floors, steam heating, electric lighting, metal lath, hollow metal skylights, metal bulks, metal ceilings, roof ventilators. Architect has received bids.

Administration Building (alt.), 1810 Race street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Wills Hospital, 1810 Race st., Philadelphia. Brick and steel, electric lighting, marble work, metal lath. Owners taking bids, due October 25th. F. L. Hoover & Son, 1023 Cherry street; H. H. Burrell, 206 South Union street; H. E. Baton, 1713 Sansom st.; F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Residences (20), Fourth and Cayuga streets, Philadelphia, \$15,000. Architect, private

plans. Owner, Emory Starnes, 2847 North Twenty-seventh street, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hot water heating, combination lighting. Work about to be started.

Residences (24), north side of Oxford between Sixtieth and Sixty-first streets, \$14,400. Architect, private plans. Owners, Kenin & Shapiro, 5850 Market street, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hardwood floors, hot water heating, combination lighting. Owners are sub-letting.

Convenience Station, Twenty-second and Lehigh avenue, Philadelphia. Architect, Jos. A. Koletter, City Hall, Philadelphia. Owners, City of Philadelphia, room 113 City Hall, Philadelphia. Brick, 1 story, 24x18 feet, slate roof, cement floors, metal lath, hollow metal doors. Low bidders: E. C. Durell, 1713 N. Twenty-fourth street, \$3,218; Mitchell Bros., 2125 Race street, \$3,278.

Residences (6) and Store and Dwelling (1), Eighty-fourth and Brunswick avenue. Architect, Herman H. Kline, Sixth and Mifflin sts., Philadelphia. Owner, David Pivesky, Island road, Philadelphia. Brick, 2 stories, 14x36 feet, and 2 stories, 16x56 feet, slag roofs, hot air heating, gas lighting, tile work, yellow pine floors. Owner will take sub-bids in one week.

Store and Dwelling (alt. and add.), 611/ Woodland avenue. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, B. Kline, on premises. Brick, stone foundations, 2 stories, addition, 16x30 feet, slag roof, hot water heating, electric lighting, marble work, hollow metal skylights, metal ceilings. Pans in progress. Owner will be ready for bids in a few days.

Garage, Office and (2) Stores (alt. and add.), Twenty-sixth and Somerset streets. Architect, R. H. Pepper, 1808 North Seventh st., Philadelphia. Owner, name withheld. Consists of remodeling present building, brick, new wall, 1 story, 101x56 feet, roof ventilators, flush bulks, electric lighting, pine floors, metal ceilings, plumbing, cement work, gasoline storage system. Architect has received bids.

Cabin (D5), Grays Ferry road (Forty-ninth street), Philadelphia. Architects, M. of W. Department, Room 361, Broad Street Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick, hollow tile, steel and stucco, 2 stories, 18x14 feet, Rex strip shingle roof, pine and cement floors, hollow tile, metal lath, steam heating (lighting and plumbing reserved). Owners taking bids, due October 27th, at 10 A. M. Graham-Campion Co., Otis Building; H. E. Grau Co., 1707 Sansom street; F. A. Havens & Co., 845 North Nineteenth street; John N. Gill & Co., Otis Building; Chas. McCaul Co., 1713 Sansom street; Irwin & Leighton, 126 North Twelfth street; E. E. Hollenback, Inc., 1804 Brandywine street; Royhouse-Arey Co., 112 North

Broad street; A. L. Carhart, Hale Building; Armstrong & Latta, Land Title Building; Mitchell Bros., 2125 Race street; Metzger & Fisher, Otis Building; The Driscoll Co., Stock Exchange Building; Robins Cont. Co., Lafayette Building; Wm. Chas. Doll Co., 201 N. Broad street; Monaghan & Losse, Inc., 3016 Chestnut street; Mark-Vardley Co., 1737 Filbert street; John V. Speth & Co., 1714 Sansom street; J. Sims Wilson Co., 1125 Brown street, and Abel Bottoms & Sons Co., 3611 Walnut street, Philadelphia, are figuring.

Church, Garage and Parsonage, Seventh and Wyoming streets, Philadelphia. Architects, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. Walter C. Sandt, 5204 N. Carlisle street, Philadelphia. Stone, brick and stucco, 2 stories and basement, 38x60 feet, 1 story, 12x30 feet, and 3 stories, 32x54 feet, slate and composition roof, hot water heating, electric lighting, tile work, concrete, chestnut and pine floors. Architects taking bids, due October 26th. Robert E. Lamb Co., 1314 Arch street; Thos. C. Trafford, 1613 Sansom street; H. E. Sweger, 4435 North Uber street; Wm. J. Grubler & Co., 219 E. High street, and W. John Stevens, Inc., Wynecote, Pa.; Henry P. Schneider, 3713 Old York road, are figuring.

Mill Building and Dye House, Sixteenth and Hunting Park avenue. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Bellevue Worsted Mills, care of Benj. W. Greer, Wistar street and P. R. R., Philadelphia. Reinforced concrete, steel and brick, 3 stories, 61x412 feet, slag roof, cement and maple floors, hollow metal sash, fire and kalamine doors, roof ventilators, metal window guards, wire work (heating, lighting and elevators reserved). Architects have received bids.

Platforms (4), Elevated Stations, contract No. 525, Frankford Elevated. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Steel and concrete steel, frame and slag roofs, 400 feet long. Owners taking bids, due October 30th. Mitchell Bros., 2125 Race street; Wm. R. Dougherty, 1610 Sansom street; Standard Const. Co., 1713 Sansom street; Keystone Const. Co., Penna. Building; M. & J. B. McHugh, 892 North Markoe street, Philadelphia, and Connors Bros. Co., 64 West Eighty-eighth street, New York City, are figuring.

Garage, 5134 Ridge avenue, Philadelphia, \$8,000. Architect, private plans. Owner, E. C. Durell, 1713 North Twenty-fourth street, Philadelphia. Brick, 1 story, 48x175 feet, slag roof, hot water heating, electric lighting, cement floors, gasoline storage system. Owner taking bids, due as soon as possible.

Residence, Carpenter street and Wissahickon avenue, Philadelphia. Architect, Laurence Vischer Boyd, Harrison Building, Philadel-

HEATING

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Philadelphia, Pa.

phia. Owner, J. Morgan Lister, West End Trust Building, Philadelphia. Stone and brick, 3 stories, 40x30 feet, shingle roof, pine and oak floors, hot water heating, electric lighting, tile and marble work. Architect taking bids, due October 25th, at noon. F. B. Davis, 240 North Sixteenth street; Chas. Johnson, 5701 Boyer street, and Wm. C. Wright, 22 Harvey street, Germantown, are figuring.

Stores (4) and Apartment (alt. and add.), Queen Lane and Laurens streets. Architect, Geo. A. Glenn, Hatboro, Pa. Owner, Walter Rothwell, Hatboro, Pa. Brick, stone, 4 stories, entire new first floor, 8x41 feet, asphalt slate roof, composition, cement and pine floors, fire escapes (lighting fixtures and heating reserved), ornamental iron work. Architect has received bids.

Store and Service Building, 1821 Chestnut street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owner, name withheld. Brick and ornamental terra cotta, 2 stories. Architect will be ready for bids in a few days.

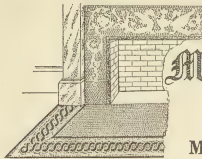
Store Building, north Broad street, Philadelphia. Architect, Ernest H. Yardley, Presser Building, Philadelphia. Owner, name withheld. Brick, reinforced concrete and ornamental terra cotta, slow burning construction, 2 stories, 28x112 feet, slag roof, steam heating, rolled steel and hollow metal sash, rolled steel skylights, roof ventilators, concrete floors. Plans in progress. Architect will take approximate bids in a few days.

Garage, 2003 Cambridge street, Philadelphia. Architects, A. J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, G. A. Muller, 2014 Girard avenue, Philadelphia. Brick, 1 story, 28x42 feet, slag roof, cement floors, electric lighting, Wasco heating. Architects taking bids, due October 24th at noon. Philip Haibach Cont. Co., Twenty-sixth and Thompson streets, and A. R. Raff Const. Co., 1635 Thompson street, are figuring.

Store Building (int. alt.), 1033 Walnut st., Philadelphia. Architect, Frank V. Nickels, Real Estate Trust Building, Philadelphia. Owner's name withheld. Consists of general interior alterations, steam heating, electric lighting, hollow metal skylights, store fixtures, mill work, hardwood floors, slag roof. Plans in progress. Will take bids in about one week.

Apartment House, Thirty-sixth and Walnut streets, Philadelphia, \$150,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Winchell & Ashby, Seventeenth and Sansom streets, Philadelphia. Brick and terra cotta, stone foundations, 4 stories, 50x180 feet (40 apartments, 2, 3 and 4 rooms and bath), slag roof, hot water heating combination lighting, electric wiring, hardwood and parquetry floors, tile and marble work, roof ventilators, fire doors, 2 fire towers, ornamental iron work. Owners and architect taking preliminary bids.

Office Building, southwest corner of Eighteenth and Noble streets, Philadelphia. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owners, Thos. Cusack Co., 213 South Tenth street, Philadelphia. Reinforced concrete and brick, 2 stories, 40x80 feet, slag roof, steam heating, electric lighting, hardwood and cement floors, tile and marble work, metal lath, cabinet work, hollow metal sash and skylights, ornamental iron work. Plans in progress. Architect will take bids in about two weeks.



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Mill Building (add.), Thirtieth and Reed streets, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Murphy & Bro., Sixteenth and Fitzwater streets, Philadelphia. Brick, 1 story, 100x35 feet, slag roof, lantern top skylights (plumbing, heating and electric lighting reserved). Plans in progress.

Residence (alt. and add.), 4140 Leidy avenue, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner's name withheld. Brick, 1 story, slag roof, hardwood floors, electric lighting, tile work, plumbing. Plans completed. Architect ready for bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Storage Building, Twenty-second and Allegheny avenue, Philadelphia, \$25,000. Architect, private plans. Owners, Westmoreland Chemical & Color Co., 915 Chestnut street. Brick, 2d and 3d story addition, 46x46 feet and 42x71 feet, slag roof, steam heating, electric lighting, hollow metal skylights, fire doors, pine and composition floors, elevators, ornamental iron work. Contract awarded to R. J. Whiteside & Sons Co., 2115 Wallace street.

Garage, Luzerne and Germantown avenue, \$18,000. Architect, Frederick T. Uetzell, 147 North Third street, Philadelphia. Owners, J. J. Felin & Co., Inc., 4142 Germantown ave., Philadelphia. Brick, 2 and 1 stories, 60x17 feet, and 60x167 feet, slag roof, cement and pine floors, hot water heating, electric lighting, roof ventilators, rolled steel sash, hollow metal skylights, ornamental iron work (gasoline storage system reserved). Contract awarded to Harry Brocklehurst, 512 Norris street, Philadelphia.

Office, Land Title Building, Philadelphia, \$5,000. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, Prichard, Paul Evans & Bayard, on premises. Reinforced concrete, pine floors, electric lighting, tile work, hollow tile, metal lath (electric fix-

tures reserved). Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Store and Residence (int. alt.), 123 South Thirteenth street, Philadelphia, \$2,000. Architects, H. A. & H. Boehm, 7 W Forty-second street, New York City. Owner, P. Centemeri, 400 Fifth ave, New York City. Consists of general interior alterations, stucco finish, cement and parquetry floors, hollow tile, electric lighting, marble work (heating reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Garage, 519 to 525 Moore street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Jacob Pitman, on premises. Stone, brick and steel, 1 story, 50x54 feet, slag roof, steam heating, electric lighting, cement floors, metal lath and ceilings, hollow metal skylights. Contract awarded to A. Lashner, Fifth and Morris sts.

Store and Dwelling (alts. and add.), north west corner Tenth and Bainbridge streets. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Barney Politz, Ninth and Bainbridge streets, Philadelphia. Brick, rear addition, 4 stories, slag roof, hot water heating, tile work, electric lighting, yellow pine floors, cabinet work, metal bulks

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Bell, Locust 1300—'PHONES—Keystone, Race 30

The United Gas Improvement Co.

and ceilings. Contract awarded to Louis Cohn, 417 Christian street.

Bank (alts.), 9 South Fifty-second street, Philadelphia, \$10,000. Architects, Hoffman Co., Finance Building, Philadelphia. Owners, Guarantee Trust & Safe Deposit Co., 316 Chestnut street. Consists of general interior alterations, repairs to roof, steam heating, electric lighting, tile floors, tile and marble work, ornamental iron work, plumbing. Contract awarded to Ketcham & McQuade, 1029 Brown street, Philadelphia.

Store Building, 1318 Walnut street, Philadelphia. Owner, H. T. Patterson, 1332 Walnut delphia, \$25,000. Architect, Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia. Brick, 4 stories, 21x127 feet, slag roof, electric lighting, steam heating. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street.

Factory Building, Swanson and Snyder ave., Philadelphia, \$3,500. Architect and engineer, H. P. Friend, Boyer Arcade, Norristown, Pa. Owners, General Mfg. Co., Swanson and Snyder avenue, Philadelphia. Brick, 1 story, 81x96 feet, concrete and slag roof, brick on concrete, slag floors, metal lath and skylights. Contract awarded to H. P. Friend, Boyer Arcade, Norristown, Pa.

Elevator Shaft, Twelfth and Locust streets, Philadelphia. Architect, Robt. Rodes McGoodwin, 1422 Walnut street, Philadelphia. Owners, S. S. White Dental Mfg. Co., Twelfth and Chestnut streets. Brick, 8 stories, 8x6

feet, metal lath, hollow metal skylights, fire doors, roof ventilators (elevators reserved). Contract awarded to Turner Concrete Steel Co., 1713 Sansom street.

Bakey, 2335 Sedgley avenue, \$5,000. Architect, private plans. Owners, Tasty Baking Co., 2335 Sedgley avenue, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, cement floors. Contract awarded to Jos. F. Myers, Jr., Co., 1237 Ridge avenue.

Warehouse (alts.), 710 South Eleventh st., Philadelphia. Architect, D. Supowitz, 1118 Chestnut street. Owner, J. Strauss, on premises. Consists of new partitions, yellow pine and plank floors, millwork, plastering, painting, electric lighting, fire doors. Contract awarded to L. Wolk, 710 South Eleventh st., Philadelphia.

Garage, Second and Arch streets, Philadelphia. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owner, Charles McNamee, care of architects. Brick, 1 story, 51x130 feet and 51x88 feet, slag roof, cement floors, steam heat, electric light, hollow metal sash and skylights, roof ventilators, wire work. Contract awarded to Evans Const. Co., 9 S. Eighteenth street, Philadelphia.

Manufacturing Building (alts.), Fifth and Glenwood avenue, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Consists of strengthening floors, steel girders, etc. Contract awarded to F. T. Davis, 240 North Sixteenth street, Philadelphia.

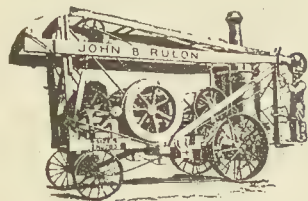
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PENNSYLVANIA

Construction News

Summer Residence, Trevos, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, J. Sidman Selby, care of architect. Frame, 2 stories, 21x28 feet, shingle roof, pine floors. Plans in progress. Architect will take bids in one week.

Bakery Building, Chestnut street between First and Second aves., Coatesville, Pa. Architect, L. Zenis Slawter, Coatesville, Pa. Owner, L. Jaffe, Coatesville, Pa. Brick and stone, 2 stories, 22x60 feet, slag roof, pine floors, electric lighting. Owner taking bids. Westley Beard and Geo. Elcessor, both of Coatesville, Pa., are figuring.

Residence (add.), Ardmore, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Alex. Sellers, Ardmore, Pa. Stone and frame, 2 stories, 14x20 feet, shingle roof, pine floors, electric lighting (heating reserved). Architect has received bids.

Bank (alt. and add.), Ashland, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owners, Ashland National Bank, Ashland, Pa. Limestone, brick and

stucco, 1 story and mezzanine floor, 44x42 feet, tin roof, composition floors, hot water heating, electric lighting, hollow metal sash and skylights, bank fixtures. Plans in progress. Architect will take bids in ten days.

Store and Apartment, Tamaqua, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owner, Harry Gardner, Tamaqua, Pa. Brick, frame and stucco, 4 stories, 150x28 feet, slag and tin roof, composition and hardwood floors, steam heating, electric lighting, roof ventilators. Architect ready for bids.

Club House (alt. and add.), Browns Folly, Pa. Architect, Louis Magaziner & Victor Eberhart, 603 Chestnut street. Owners, Waist, Silk Suit and Children's Dressmakers' Union, 40 North Ninth street, Philadelphia. Brick and stucco, 3 stories, 45x80 feet, slag roof, hot water heating, plumbing, general interior alterations. Plans in progress.

Residence (alt. and add.), Bryn Mawr, Pa. Architect, Edw. T. Boggs, 146 South Fourth street, Philadelphia. Owner, Benj. G. Wells

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Construction } Additions
New Buildings

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Foundation Walls to
Interior Trim."

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AWARDING A CONTRACT

Bryn Mawr, Pa. Stone, 2 stories, 18x19 feet, slate roof, oak floors, electric lighting, tile work, metal lath (mason work, plumbing, heating and cement work reserved). Architect has received bids.

Residence and Garage (remodeling), Merion, Pa. Architects, Druckenmiller & Williams, Land Title Building, Philadelphia. Owners, Charles P. Vaughn, 5911 Overbrook avenue, Philadelphia. Brick, plastered, 2½ stories, 57x56 feet, wing, 48x27 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Plans in progress. Will take bids in about ten days.

Mine Storage Building, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, brick and stucco, 1 story, 109x50 feet, asbestos shingle roof, pine floors, hollow tile, rolled steel sash. Low bidders: M. Linker & Co., 831 Cherry street, Philadelphia, lowest bidder; J. Henry Miller, Baltimore, Md., second lowest bidder.

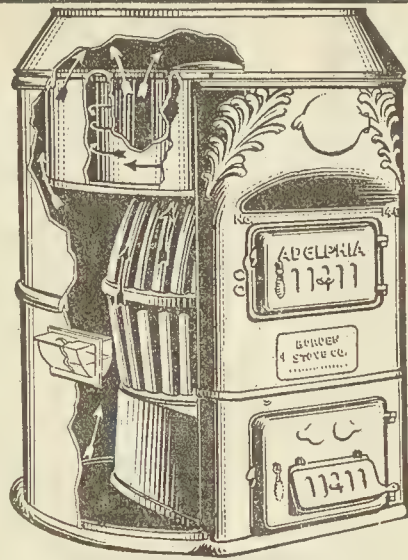
Garage, Reading, Pa. Architect, Wayne M. High, North Fifth street, Reading, Pa. Owner, Samuel Eisenbrown, Reading, Pa. Stone, 1 story, 132x70 feet, composition roof, cement floors, electric lighting, gasoline storage system. Plans in progress.

Building No. 37 (add.), Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Carpenter Steel Works, Reading, Pa. Frame, 1 story, 50x110 feet, corrugated iron, electric lighting. Plans in progress.

Factory, Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Reading Fire Brick Works, Reading, Pa. Frame and iron, 1 story, 60x100 feet, Rubberoid roof, electric lighting. Architect has received bids.

Factory, Lancaster, Pa. Architect, Wayne M. High, Reading, Pa. Owners, Conestoga Motor Truck Co., Woolworth Building, Lancaster, Pa. Brick and concrete, 1 story, 60x200 feet, composition roof, cement floors, electric lighting, gasoline storage system. Architect taking sub-bids.

School, Hyde Park (Muhlenberg Township), Pa. Architect, Wayne M. High, Reading, Pa. Owners, Muhlenberg Township School Board, Hyde Park, Pa. Brick, 2 stories, 103x65 feet, slag roof, pine floors (electric lighting, plumbing and heating, reserved), hollow metal sash. Architect taking bids, due October 24th.



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725-26 Commercial Trust Building, Philadelphia

Adam Spotts, Beard Const. Co., Chas. Schlegel, all of Reading, Pa., are figuring.

Residence, Wyomissing, Pa. Architect, J. D. Lance, Wyomissing, Pa. Owner, H. Guenther, Reading, Pa. Brick and stucco, 2½ stories, 32x30 feet, slate roof, hot water heating, electric lighting, hardwood floors. Owners taking bids, due as soon as possible. Daniel H. Hunter, H. J. Raudenbush and Geo. Koch, all of Reading, Pa., are figuring.

Garage, 117-19-21 South Third street, Harrisburg, Pa., \$20,000. Architect, H. M. Kulp, Lancaster, Pa. Owner, H. H. Cohn, New Cumberland, Pa. Brick and reinforced concrete, 3 stories, 18x57 feet, slag roof, steam heating, electric lighting, concrete and pine floors, hollow metal sash and skylights, fire doors, elevators, safety treads, elevators, roof ventilators, metal window guards, gasoline storage system. Owner taking sub-bids, due as soon as possible.

Residences (5), south side of Eighth street, Chester, Pa. Architect, private plans. Owner, J. H. Phipps, 247 East Fourth street, Chester, Pa. Brick, 2 stories, 14x28 feet, slag roof, pine floors, hot air heating. Owner will sublet.

Store and Dwelling, Mary and Howell sts., Chester, Pa. Architect, private plans. Owner, William Whittaker, 1815 West Third street, Chester, Pa. Brick, 2 stories, 18x47 feet, composition roof, pine floors, electric lighting, flush bulks. Owner will sublet.

Hotel, Fourth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, George Shober, 305 Market street, Chester, Pa. Stone foundations, brick, terra cotta and concrete, 4 stories, 70x80 feet, slag roof, steam heating, combination lighting, tile work, hollow metal skylights, fire tower and fire doors, yellow pine floors, metal lath, trunk lift, roof ventilators, ornamental iron work. Architect taking bids. Hogg Const. Co., 1634 Sansom street, and Metzger & Fisher, Otis Building, are figuring.

Residence (add.), near Newtown, Bucks Co., Pa. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, J. J. Tierney, Newtown, Pa. Stone, 2½ stories, 33x15 feet, shingle roof, pine floors. Plans in progress. Architect ready for bids in a few days.

PENNSYLVANIA

Contracts Awarded

Cocoa and Chocolate Factory, College and Centre avenues, Pittsburgh, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Penna. Chocolate Co., 5848 Centre avenue, Pittsburgh, Pa. Reinforced concrete and steel, rough textured brick, 7 stories and basement, 62x185 feet, rolled steel sash, roof ventilators, wire glass, flat slab and slag roof, concrete work (electric lighting and elevators reserved), plumbing.

Contract awarded to Turner Const. Co., 11 Broadway, New York City.

Finishing Building, Chester, Pa. Engineer, Geo. F. Hardy, 309 Broadway, New York City. Owners, Chester Paper Co., Chester, Pa. Brick and concrete, 3 stories and basement, 256x118 feet, slag roof, reinforced concrete floors. Contract awarded to Turner Concrete Steel Co., 1713 Sansom street.

Residences (2), Lancaster road, Bryn Mawr,

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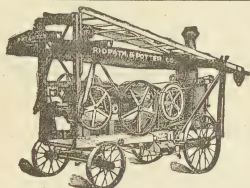
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587 Bourse Building
Philadelphia, Penna.

Pa., \$10,000. Architect, John C. Norton, Ardmore, Pa. Owner, M. J. Reynolds, Bryn Mawr, Pa. Stone and plaster, 2½ stories, slate roof, hot water heating, combination lighting, tile work, hardwood floors. Contract awarded to Penna. Co. of Engineers, 24 E. Lancaster ave., Ardmore, Pa.

Residences (2), Ardmore Park, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, Nicholas Bratani, Ardmore, Pa. Brick, 2 stories, 33x39 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to Penna. Co. of Engineers, 24 E. Lancaster avenue, Ardmore, Pa.

Residences (2), Cotesville, Pa. Architect, private plans. Owner, Arthur Yearlly, Cotesville, Pa. Brick, 2 stories, 32x38 feet, slate roof, pine floors, hot air heating, electric lighting. Contract awarded to Westley Beard, Cotesville, Pa.

Garage, Merion, Pa., \$1,900. Architect, John C. Norton, Ardmore, Pa. Owner, Mrs. H. L. Ludlow, Merion, Pa. Brick and plaster, 1 story, 12x20 feet, slag roof, hot water heating, electric lighting, concrete floors, gasoline

storage system. Contract awarded to Penna. Co. of Engineers, 24 E. Lancaster avenue, Ardmore, Pa.

Residence, Lynnewood avenue, Ardmore, Pa., \$5,800. Architect, John C. Norton, Ardmore, Pa. Owner, name withheld. Hollow tile and stucco, 2½ stories, 30x40 feet, asbestos shingle roof, hot water heating, combination lighting, tile work, hardwood floors. Contract awarded to the Penna. Co. of Engineers, 24 E. Lancaster avenue, Ardmore, Pa.

Garage, Third and Fulton streets, Chester, Pa. Architect, Maurice Golden, Crozer Building, Chester, Pa. Owner, Philip Schwartz, Chester, Pa. Brick, 1 story, 40x128 feet, slag roof, steam heating, electric lighting, concrete floors, fire doors, gasoline storage. Contract awarded to R. H. Scroggins, 415 East Seventh street, Chester, Pa.

Store (alt.), East Sixth street, Chester, Pa. Architect, private plans. Owner, A. H. Peoples, Sixth and Market streets, Chester, Pa. Stone front, 1 story, tile work, metal bulks. Contract awarded to R. H. Scroggins, 415 E. Seventh street, Chester, Pa.

tion No. 9, Twelfth and Federal streets, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, American Ice Co., Sixth and Arch streets, Philadelphia. Brick, concrete, steel and iron, slag roof, kalamein doors (elevator reserved). Architects have received bids.

School Building, Browns Mills, N. J. Architects, Moffett & Stewart, Inc., 30 N. Third street, Camden, N. J. Owners, Board of Education, Pemberton Township, Pemberton, N. J. Frame, 1 story and basement, 76x52 feet, asbestos roof, steam heating, yellow pine floors, metal lath, fire doors, ventilators, hollow tile (heating reserved). Low bidder: Conklin & Suttis, Bradley Beach, N. J.

Post Office, Woodbury, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Brick, 1 story, 55x60 feet, composition roof, metal lath, electric lighting, plumbing, steam heating, marble, terrazzo and slate work, hollow metal skylights, kalamein doors, roof ventilator. Owners taking bids, due November 23rd. F. L. Hoover & Sons, Inc., 1023 Cherry street, Philadelphia, are figuring.

Dormitory, Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, New Jersey School for Deaf Mutes, State Board of Education, Trenton, N. J. Brick, 3 stories, 135x110 feet, slag roof, composition and pine floors, steam heating, electric lighting, hollow tile, metal lath, metal weather strips. Architect taking bids, due October 29th. S. W. Mather & Son, I. Harper Clayton, James H. Morris, and Newton K. Bugbee, all of Trenton, N. J., are figuring.

Residence, Morris Heights, N. J., \$12,000. Architect, W. W. Slack, St. Regis Building, Trenton, N. J. Owner, Charles H. Carver, Fallsington, N. J. Hollow tile and stucco, 2½ stories, 32x43 feet, slate roof, hardwood floors, electric lighting. Architect taking bids, due October 29th. Wm. Ivins, I. Harper Clayton, Burton & Burton, all in the American Mechanics' Building; Chas. Smith, 63 Maple avenue; Fred Parker, Calhoun street; Charles Randall, Hermitage avenue, and Thos. Day, 1109 Greenwood avenue, all of Trenton, N. J., are figuring.

Entrance eGates to the New Interstate Fair, Trenton, N. J. Architect, W. A. Kleeman, National Bank Building, Trenton, N. J. Owners, Interstate Fair Association, Commonwealth Building, Trenton, N. J. Consists of small brick and stucco building, 1 story, slate roof, concrete work, iron gates. Architect taking bids, due October 18. Low bidders, Burton & Burton, American Mechanics' Building, Trenton, N. J.

NEW JERSEY Construction News

New Jersey Contracts Awarded

Power House and Service Building (alt.), Atlantic City, N. J. Architect, Addison H. Savory, Stephen Girard Building, Philadelphia. Owners, Haddon Hall, Atlantic City, N. J. Brick and steel, fireproof. Plans in progress. Too early for details.

Residence (alts.), Merchantville, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, name withheld. Consists of general interior alterations, doors, millwork and parquet floors. Architect taking bids. M. T. James, Merchantville, N. J., is figuring.

School, Waterford Township, Camden Co.,

N. J., \$3,000. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, School Board of Waterford Township, Camden Co., N. J. Brick, 1 story, 24x36 feet, shingle roof, pine floors. Owners taking bids, due October 26th. Frederick Lange, Audubon, N. J., and Geo. W. Sraner & Son, Palmyra, N. J., are figuring.

Shelter House, Pine Valley, N. J. Architect, Frank A. Hayes, Weightman Building, Philadelphia. Owners, Pine Valley Golf Club, on premises. Frame, 14x16 feet, tile roof. Architect has received bids.

Elevator Pent and Ice Storage House, Sta

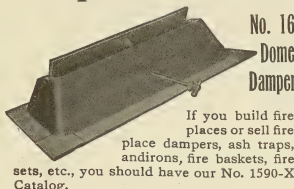
Garage, 710 South Broad street, Trenton, N. J. Architect, J. P. Petite, Trenton, N. J. Owner, Samuel Aserer, on premises. Concrete block, 1 story, 18x25 feet, slag roof, cement floors, electric lighting. Contract awarded to Puschat & Gars, 117 Wayne avenue, Trenton, N. J.

Concrete Retaining Walls, Iron Fence and Brick Paving, Trenton, N. J. Architect, W. E. Endebrock, American Mechanics' Building, Trenton, N. J. Owners, Department of Public Safety, City of Trenton, N. J. Contract awarded to S. W. Mather & Son, Greenwood and Canal streets, Trenton, N. J.

Residence (alts.), Merchantville, N. J. Ar-

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Warehouse (add.), Crawford and Dock sts., Baltimore, Md. Architect, private plans. Owners, Wm. C. Robinson Co., 32 South street,

Baltimore, Md. Brick and steel, 1 story, 40x53 feet, slag roof. Contract awarded to Herbert & Prodoehl, Munsey Building, Baltimore, Md.

Miscellaneous Contracts Awarded

Bridges, Nos. 59 and 60, across Brandywine Creek, south of Brandenburg, Del. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Twelfth and Market streets,

Philadelphia. Lumber, steel, concrete and stone, metal caging, 136x112 feet long and 18 feet wide, 4,000 feet of timber, waterproofing, ornamental iron work. Contract awarded to D. Denburger Cont. Co., Inc., Bethlehem, Pa.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 5134 Ridge avenue, \$8,000. E. C. Durell (O and C), 1713 North Twenty-fourth street. Brick, 1 story, 48x175 feet and 41x72 feet, slag roof.

Garage, Sixty-third street and City avenue, \$1,025. Theo. Campbell (O), 2101 North Sixty-third street. Alfonso Verdi (C), 6145 W. Girard avenue. Brick, 1 story, 33x21 feet, slag roof.

Garage, Wayne and Penn street, \$400. G. Schall (O), on premises. L. Davis (C), Thirteenth and Nedro streets. Brick, 1 story, 12x20 feet.

Garages (3), Green Lane and Boone street, \$750. F. L. Thomas (O), 192 Green Lane. John F. Nulley & Co. (C), 4416 Crescent street. Brick, 1 story, 12x20 feet, slag roof.

Garage, Darien street and Bristol street, \$600. W. Walton (O), 4334 North Eighth street. Edw. B. Miller (C), 4313 North Eighth street. Brick, 1 story, 14x22 feet, slag roof.

Garage and Gymnasium, Sixty-fourth and Vine streets, \$1,800. P. Di Bernardino (O), on premises. Cozay & Sbroglia (C), 922 South Twelfth street. Brick, 2 stories, 16x24 feet, slag roof.

Church, Eighty-sixth and Bartram avenue, \$5,000. Elmwood A. M. E. Church (O), on premises. J. F. Trent (C), 2041 Master st. Brick, 1 story and basement, 36x52 feet, slag roof.

Dwellings (5), 1924-32 Haworth street, \$11,000. Elizabeth Osborne (O), 5017 Dufield street. George Osborne (C), 5017 Dufield street. Brick and frame, 2 stories, 14x25 feet, slag roof, hot air heating.

Garage, 3008-12 Tulip street, \$3,000. Martin P. Newell (O and C), 3032 Aramingo avenue. Brick, 1 story, 34x127 feet, slag roof. Storage, 345-47 North Thir street, \$6,400.

Steinfeld Weil Co. (O), 402 North Third street. Connecan Const. Co. (C), 1737 Filbert street. Brick, 1 story addition, irregular in size, 83x31 feet and 123x17 feet, slag roof.

Dwellings (23), Harrison and Oakland sts., \$69,000. George Edel (O and C), Hillcrest and Stenton avenue. Brick, 3 stories, 15x31 feet, tin and slag roof, hot water heating.

Dwelling, 2945 North Twenty-second street, \$4,500. Wm. Rose (O), 2943 North Twenty-second street. M. J. Benanny (C), 3042 West York street. Brick, 2 stories, 16x45 feet, slag roof.

Shop, 2740 North Hoffs street, \$1,200. Harriet Cacbeck (O), 2741 North Howard street. C. Bonner (C), 2838 North Front street. Brick, 17x45 feet, slag roof.

Shop, 176 East Zellprohocken street, \$2,500. Paul J. Snyder (O and C), on premises. Stone, 1 story, 60x40 feet.

Dwellings (24), Oxford and Sixtieth street, \$133,300. Oler & Shapiro (O and C), Fifty-seventh and Master streets. Brick, 2 stories, 15x24 feet, slag roof, hot water heating.

Garage, 525-27 Arbutus street, \$2,500. Robert Killough (O and C), Wayne and Duval street. Stone, 2 stories, 19x22 feet, slate roof, cement floor and metal lath.

Garage, Sixty-fourth and Lebanon avenue, \$4,000. Louis Jones, Jr. (O), on premises. Moss & Taylor (C), Fifty-eighth and Girard avenue. Brick, 2 stories, 75x20 feet, slag roof.

Garage, Lazeme and Germantown avenue, \$18,000. J. J. Fellin & Co., Inc. (O), 4142 Germantown avenue. H. Brocklehurst (C), 512 Norris street. Brick, 2 stories front, 1 story rear, 60x17 feet and 60x167 feet, slag roof.

Dwellings (2), Smick and Leverington avenue, \$4,000. Martin H. Keller (O), 326 Du-

Maryland

Construction News

Garage, Greenmount avenue, Baltimore, Md. Architect, private plans. Owners, Tourist Garage, care of Joseph C. Smith, 16 East Lexington street, Baltimore, Md. Brick, 1 story, 12x28 feet, concrete foundation, slag floor, glazing, hardware, painting, mill work (heating, electric work and plumbing reserved). Owners taking bids, due in a few days. P. J. Cushen, 217 St. Paul street; Clarence E. Stubbs, Equitable Building; Fred Decker & Son, and McIver Construction Co., all of Baltimore, Md., are figuring.

Maryland

Contracts Awarded

Power Plant (add.), Falls Road and Pacific avenue, Baltimore, Md., \$2,000. Architect, private plans. Owners, Consolidated Gas, Electric Light and Power Co., Lexington street, Baltimore, Md. Concrete and steel, 1 story, 12x23 feet, slag roof. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Manufacturing Building (alts.), Latrobe and Federal streets, Baltimore, Md. Architect, private plans. Owners, Crown Cork and Seal Co., Guilford avenue, Baltimore, Md. Consists of general interior alterations. Contract awarded to Monmonier & Sorrell, 1711 McCulloch street, Baltimore, Md.

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pont street. Wm. Keller (C), 480 Harcum road. Brick, 2 stories, 14x31 feet, slag roof, hot air heat.

Garage, 7919 Buist avenue, #400. Finley

Baxter (O), on premises. George S. Roe (C), 6949 Saybrook avenue. Brick, 1 story, 15x22 feet, slag roof.

Alterations and Additions

Printing, Comby and Hegeman streets, #300. N. Edwin Lindell (O and C). Brick, 1 story, 16x18 feet, slag roof.

Dwelling, Fifty-eighth and Arch streets, #2,000. Wm. H. Yorke (O and C), 5245 Ludlow street. Alterations.

Store, 123 South Thirteenth street, #2,000. O. Centuari Co. (O), 400 Fifth avenue, New York. Lam Building Co. (C), 1001 Wood street. New flush bulk.

Dwelling, Sixteenth and Green streets, #400. Jacob C. McWilliams (O and C), 1600 Green street. Interior alterations.

Warehouse, 103-5 Walnut street, #390. Coffin & Gilmore (O), Front and Walnut streets. John J. Urban (C), 205-7 Ionic street. Alterations.

Sanatorium, 1709-11 Green street, #1,000. Joseph H. Anderson (O), on premises. A. Mactavish (C), 1515 Pine street. Alterations.

Storage Shed, Emerald and Millard streets, #2,500. Madison Spinning Mills (O), on premises. Wm. Steele & Sons Co. (C), 30 South Fifteenth street. Fire repairs.

Store and Dwelling, 2109 Germantown avenue, #300. Joe Goldman (O), on premises. H. C. Zingraf (C), 2527 North Seventh street. Brick, 1 story, 11x11 feet.

Storage, Twenty-second and Allegheny avenue, #25,000. The Westmoreland Chemical and Color Co. (O), 925 Chestnut street. R. J. Whiteside & Sons Co. (C), 2115 Wallace st. Brick, 3 stories, 46x171 feet, slag roof, steam heating.

Dwelling, 3737 Frankford avenue, \$500. Robert Gray (O), on premises. Barnes Bros. (C), 2080 East Willard street. Brick, 1 story, 18x30 feet, slag roof.

Forge Shop, 2300 East Tioga street, #2,000. S. A. Ashman & Sons Co. (O), on premises. R. B. Lederle (C), Witherspoon Building. Steel frame, 19x44 feet and 16x24 feet.

Saloon, 3734 Market street, \$1,000. M. M. Sullivan (O), on premises. Raith Const. Co. (C), 302 Master street. New front and alterations.

Storage, 2644-46-48 Coral street, \$3,800. Ed. McGlinchey (O), Frankford avenue and Coral street. Berger Dubbs (C), 2406 North Tenth street. Brick, 2 story front addition, 22x32 feet, and brick 1 story rear addition, 55x62 feet, slag roof.

Dwelling, 2408 North Broad street, \$300. C. F. Schraedde (O and C), on premises. Alterations.

Factory, E and Tioga streets, \$4,500. Baxter, Kelly & Faust (O), on premises. F. A. Havens Co. (C), 845 North Nineteenth street. Brick, 1 story, 31x24 feet, slag roof.

Dwelling, Seventeenth and Courtland sts., #400. Merchant Trust Co. (O), 715 Chestnut street. Thomas M. Keiley (C), 4411 Germantown avenue. Alterations to front.

Garage, 723 West Clinden street, \$950. John A. Seeds (O), 716 West Upsal street. Chas. Johnson (C), 5701 Boyer street. Stone, 1 story, 22x22 feet, tin roof.

Banking Office, 9 South Fifty-second street,

\$7,000. Guarantee Trust Co. (O), Fourth and Chestnut streets. Ketchman & McQuade (C), 1029 Brown street. Interior alterations.

Store and Dwelling, Twenty-third and Fairmount avenue, \$500. Mrs. H. Hassinger (O), 563 Fifth street, Ocean City. S. J. Rea & Son (C), 1608 Fairmount avenue. Two flush bulks.

Factory Building, Richmond and Tioga sts., #550. Girard Smelting Co. (O and C). Brick wall, 30x803 feet, wall up, slag roof.

Dwelling, 2043 Green street, \$1,600. Win P. Barroy (O), on premises. E. R. Sabin Co. (C), Sixty-third and Walnut streets. Heating system, hot water.

Store and Dwelling, 3021 East Thompson street, #650. Jack Cohen (O), on premises. Frank Boffa (C), 3131 Fulton street. Brick, 2 stories, 14x14 feet, slag roof.

Dwelling, 1238 South Thirteenth street, #300. B. Ti Benni (O), on premises. Alfonso Pieti (C), 1309 South Thirteenth street. Foundry, 819-21-23 South Water street, #5, 500. Union Machine Works (O), on premises. A. Raymond Raff Const. Co. (C), 1635 Thompson street. Fire repairs.

Warehouse, 30-32-34 South Sixth street, #2,000. L. H. & J. H. Warren (O), on premises. Wm. Easterbrook (C), 146 North Fourth street. Alterations.

Dwelling and Store, 3300 Woodland avenue, \$1,425. E. P. Huttlinger (O), Penn Mutual Building. E. R. Sabin (C), Sixty-third and Walnut streets. Install steam heating.

Garage, 2013 Orthodox street, #300. C. E. Link (O), on premises. Charles Doerr (C), 4857 Tacony street. Brick, 1 story, 10x18 feet.

Bakery, 2335 Sedgley avenue, \$5,000. Tasty Baking Co. (O), on premises. Joseph F. Myers, Jr. Co. (C), 1237 Ridge avenue. Brick, 2 stories, 20x40 feet, cement floor, slag roof.

Office, American and Pike streets, #700. Schuykill Forge Co. (O). J. J. Harding (C), 729 North Twenty-sixth street. Brick, 1 story, 11x26 feet, slag roof.

Department Store, 833 Market street, \$1,200. Blaumers, Inc., (O and C), on premises. Brick, fifth floor addition, 24x32 feet, tin roof.

Dwelling, 3235 Almond street, #900. Joseph Mayer (O), on premises. Wm. A. Cloak (C), 2028 East Orleans street. Brick and stone, second story rear addition, 10x12 feet, slag roof.

Factory, Hunting Park avenue and Clerassa street, \$1,500. Saugout Silk Manufacturing Co. (O), on premises. J. Howard Roberts (C). Lansdowne, Pa. Brick, 1 story, 48x13 feet, slag roof.

Dwelling, Ridge avenue and City Line, \$1,800. Dr. B. R. Peltz (O), 8914 Ridge avenue. E. R. Clark Co. (C), 536 East Walnut Lane. Frame, 1 story, 16x32 feet, shingle roof.

Store and Storage Building, 1318 Walnut street, #25,000. H. T. Patterson (O), 1332 Walnut street. Wm. Steele & Sons Co. (C), 30 South Fifteenth street. Brick, 4 stories, 21x127 feet, slag roof.

Factory, Weecaece and Snyder avenues, #3,500. General Manufacturing Co. (O), Swanson street and Snyder avenue. H. P. Friend, Inc. (C), Norristown, Pa. Brick, 1 story, 64x99 feet, slag roof.

Moving Pictures, Fortieth and Market sts., #4,500. Knickerbocker Realty Co. (O). M. P. Moller (C), Hagerstown, Md. Installing new pipe organ.

Dwelling, 3806 Wyalusing avenue, \$1,125. Sadie Wiener (O), 4120 Cambridge street. Wm. Ariff (C), 352 Gladstone street. Alterations.

Dwelling, Wayne avenue and Penn street, #500. G. Schaal (O), on premises. L. Davis

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(C), Thirteenth and Nedro streets. Alterations.

Store and Dwelling, 3101 Darien street, \$1,200. Harry Zinger (O), on premises. J. Y. Sorry (C), 3731 York road. Brick, 2 stories, 4x16 feet, slag roof, new flush bulk and alterations.

Saloon, 229 South Broad street, \$500. Weightman Estate (O), 1524 Chestnut street. F. M. Harris Co. (C), 1520 Parrish street. Alterations.

Dwelling, 1517 Spring Garden street, \$950. Max Silverman (O), 524 North Fifteenth street. Albert Lashner (C), 1625 South Orkney street. Alterations.

Dwelling, 1344 Ellsworth street, \$300. Miss M. Watson (O), Broad and Ellsworth streets. Thomas J. O'Neill (C), 5840 Osage avenue. Alterations.

Store and Dwelling, 2847 Frankford avenue, \$1,250. Woss & Meise (O), 3163 Frankford avenue. Harry Bobb (C), 3038 Agate street. New front and flush bulk.

Dwelling, Twenty-fifth and Point Breeze avenue, \$1,000. E. & K. Simons (O), on premises. Alex Chambley (C), Twenty-first and Summer streets. Move two-story building.

Store and Dwelling, Ninth and Catharine streets, \$400. Dr. DeVirgills (O), on premises. Frank R. Billotta (C), Seventh and Christian streets. Close a bulk window, replace brick wall.

Shop, 959 Lithrow street, \$800. Julius Stoerckel (O and C), 257 South Fourth street. Brick, second story rear addition, 16x29 feet.

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SEALED PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C. October 12, 1917.—Sealed proposals will be opened in this office at 3 p. m., November 12, 1917, for the construction complete of two additional dolphins and the furnishing and installing complete of thirty-two spring buffers at the wharf of the Quarantine Station at Tampa Bay, Florida. Drawings and specifications may be obtained from the custodian at Tampa Bay, Florida, or at this office, in the discretion of the Acting Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C. October 12, 1917.—Sealed proposals will be opened at this office at 3 p. m., November 23, 1917, for the construction of the United States post office at Woodbury, N. J. Drawings and specifications may be obtained from the custodian of the site at Woodbury, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

WISCONSIN TO LICENSE ARCHITECTS AFTER JANUARY 1.

A law recently passed by the Legislature of the State of Wisconsin provides that on and after January 1, 1918, no person shall use the title "architect" in a business way, or in any way represent himself to be an architect, unless he has a certificate of registration.

The examining board is to consist of five members, including the State Architect, the Dean of the Engineering College of the State University and three architects appointed by the Wisconsin Industrial Commission, the body which administers the State building code. The commission has already appointed the members of the examining board as follows: Architects Alfred C. Clas, Milwaukee; A. C. Eschweiler, Milwaukee, and Henry A. Moeller, Green Bay. The ex-officio members of the examining board are F. E. Furneause, Dean of the Engineering College, Madison, and Arthur Peabody, State Architect, Madison.

The board is authorized to formulate the rules and regulations for the examination and registration of the architects. The applicant for license must present satisfactory evidences of a knowledge of sound construction, building hygiene, architectural history and mathematics, and, in addition, he must have had five years' experience in the practice of architecture. In lieu of the examination the board may accept the diploma of graduation from an architectural school of approved standard, followed by three years of experience in practice. Provision is also made to recognize registration obtained in another State having satisfactory standards. Any architects engaged in actual practice when the law was passed may receive a certificate without examination.

The industrial board issues the certificates to those certified by the board of examiners. This commission may revoke a certificate for cause. The registration law does not bar from the designing of buildings all persons who do not acquire a certificate. They are only barred from using the title of "architect."

"DENTAL WORK" ON OLD WINDOW SILLS.

In old houses one frequently finds oak or pine window sills instead of stone or cement. When the owners have been careless in keeping the same painted, it almost always happens that they become cracked and often decayed. Other parts of an old building may be quite sound—especially if it is a brick or stone structure—while the window sills seem quite ready to be taken out.

Unless the sills are very badly decayed the following method will restore them to an apparent condition of soundness, and will renew them for many additional years of service. With chisel cut away the decayed parts, much as a dentist grinds out the decayed parts

of a tooth. Cut well in until only bright wood is exposed. Dry the interior of such cavities with blow pipe flame until all moisture is removed.

Next prepare a mixture of fine sawdust and wood glue, crowding the same well into all parts of the cavities and cracks. Smooth the surface with putty knife.

After several days the surface of the sill should be scraped and sand papered until bright and smooth. If it is now painted it will appear perfectly sound and solid. Moreover, the filled cavities will remain intact permanently. Of course the sill will need to be kept carefully painted, for moisture will gradually disintegrate the sawdust and glue mixture if allowed to find entrance into it.

Builders who have contracts for repairing and painting old church buildings and similar structures should employ this method. It is not expensive, and will give results that greatly please. Door sills may be repaired in the same manner.

E. V. L.

THE QUEBEC BRIDGE—A SERMON IN DETAIL.

The completion of the Quebec bridge after two disasters marks a triumph in bridge engineering, yet the ultimate success of this project has rested not so much on a spectacular struggle with well-nigh insurmountable difficulties as in more or less prosaic effort to perfect the details of this great structure in all its parts. The story of this ill-fated project is a sermon on the importance of minute care in detail, since both of the disasters which befell it were brought about through oversight of seemingly minor features. In the first case it was carelessness in the revision of dead-load calculations and in the proportioning of the lacing bars of the compression members. In the second case the design of the saddles by which the span was supported from the elevator hangers was at fault. Bridge engineering is essentially a matter of minute, painstaking detail. Imagination and vision play but a small part in the successful completion of even the most wonderful structure. One of the best illustrations of the importance of detail can be found in the field of movable bridges. In most of the types the fundamental principle is implicitly itself, but ultimate success involved years of experimentation. In one of the first types developed a period of twenty years elapsed after the first structure was built before a second one was attempted. The first one was a most indifferent success, while a greater perfection of working parts in the second led to the repeated use of this design in subsequent structures. Bridges or ordinary proportions built to-day are better than those of years gone by, not so much because new types or designs have been evolved, but because greater care is taken in the proportioning of the details and closer attention is given to the perfection of the workmanship in the shop and in the field.—"Railway Age Gazette."

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READJUSTMENT AT HAND.

One of the "natural consequences of the establishment of a fixed basic price for steel and iron products, coal, copper and other structural essentials will be a readjustment of the building trades to meet the new conditions arising from the Governmental action. In effect, this will be far-reaching, as it is but a small percentage of the structural interests that will not, in some form or other, feel the influence of the price fixing policy.

For a protracted period the building trade and its allied interests has suffered as a result of the highly inflated prices of structural materials. The excessive cost of fabricated steel was one of the principal factors in the prohibitive construction costs. The erection of new buildings, particularly that type involving a framework of fabricated steel, had practically ceased on account of the high prices and delayed deliveries of this important community. The industry as a whole was halted and its progress all but stopped by virtue of the unprecedented conditions that were combined in slowing down construction to the minimum.

With basic prices fixed by Governmental order the outlook for a marked improvement in the building situation is exceptionally bright. The improvement will not follow immediately, however, but will be the outgrowth of a gradual readjustment back to the conditions that maintained in normal times. Before the national or local building situations are able to emerge from the cloud of depression and uncertainty that has enveloped them for altogether too long a period, an indefinite time must elapse during which the building industry in all of its manifold phases must revise not only its mental attitude toward the future, but its actual working conditions will of necessity be forced to undergo a complete metamorphosis on account of the new influences that have been injected into the situation. Until this period has successfully passed progress will probably not be marked, but it is generally conceded throughout the industry that the transformation will not require more than a nominal space of time.

When the building industry is finally readjusted in accordance with the price fixing principle and the respective units have come to a complete realization of the importance of a comprehensive co-operative movement for the ultimate benefit of the industry, the commencement of the long predicted and hoped for building boom will be close at hand. From the existing indications the predicted activity will equal, if not exceed, any movement of recent times. Certainly there is ample opportunity for a greatly increased structural activity that will include practically all lines of structural endeavor. This fact is conceded by even the most pessimistic among the building interests. The demand

will necessitate an amplified production in all branches of construction work and through this activity the building business will return again to its former prominent position among the leading industries of the nation.—"New York Record and Guide."

PLAN HOMES FOR MUNITION WORKERS.

National Society for Defense Making Survey of Needs Throughout U. S.

As a measure of protection against inadequate housing of labor employed in munition manufacturing centers the National Society of Defense is making a national survey to ascertain the need for immediate construction of thousands of non-steel buildings, says the Dow Service Daily Building Reports of New York.

Henry Atterbury Smith, the architect, has been serving as an investigator for eastern centers, including Cleveland, Akron, Pittsburgh, Chester and the Naugatuck Valley, including Bridgeport, and asserts that some means must be found for providing cheap money for building proper dwellings for workers if Government war requirements are to be supplied at the pace the present stage of the war demands. The investigation so far has developed the fact that a wholesale shifting of industrial population is forcing a condition that will prove to be important in meeting at an early date the growing demand for housing and the present timidity of building money.

Sees Building Revival.

This fact, coupled with the belief of Walter T. Smith, vice-president of the George A. Fuller Company, who has his finger on more than \$25,000,000 worth of proposed new building construction the country over, that some time around the first of the year the building situation as a problem would substantially clear itself, an increasing number of persons interested in building construction are led to believe that a demand for construction is gradually developing that despite the present price levels construction work would again get under way.

In the building material price market a general stability of levels has prevailed during the last seven weeks. Increases that have occurred, such as, for instance, the change in the price of Indiana limestone from eighty-three cents to ninety-three cents a cubic foot to the present level quoted this week of eighty-nine cents to \$1.04, is due to the increase in freight rates that have become effective on some of the western railroads.

Readjustment Setting In.

In virtually every department of the building construction market there are increasing evidences that the period of readjustment is

setting in. Conferences, wage revisions, delivery agreements and similar negotiations apparently indicate general plans for getting ready for a return to normal conditions just as soon as the coming Liberty Loan campaign is over and the banks and lending companies ascertain definitely how much money depositors are going to patriotically withdraw in order to subscribe and how much of a strain the \$100,000,000 block that the local insurance section alone will absorb, will place upon the local money market. The great demand for construction at present is expected to force a quick recovery and an early passing of the building situation as a problem.

CONTRACT REFORM BEGINS BEFORE WAR.

"Contract reform traceable to the unusual conditions attending the war is being extended to Mississippi River work done under the direction of the Corps of Engineers, United States army," says the "Engineering News-Record."

"There has been adopted for this work a cost-plus-25-per-cent form of agreement under which bids are asked and contracts awarded on a field cost per cubic yard. If the contractor does the work for less than the bid price, he receives half the saving, in addition to his percentage of the bid cost. If the work costs more than the bid, the excess will be deducted from the 25 per cent. of the bid cost which the contractor would have received, up to the point where the amount deducted becomes 10 per cent. of the bid cost.

"A greater premium is thus put on saving than in the case with any private work of which this journal has been informed. Very economical work should result. On the other hand, the contractor cannot, in the event of unforeseen rises in labor and materials, receive less than field cost of the work, plus a fee equal to 15 per cent. of his bid. Thus, no work is apt to be thrown into the hands of a receiver, even as a result of unfortunate circumstances, which is also greatly to the Government's advantage.

"These percentages are not excessive when it is remembered that absolutely nothing except labor and materials consumed in doing the work is included in the field cost. Even freight and unloading charges on plant are paid for out of the fee. Furthermore, the Government reserves the right to place additional plant on the work at the contractor's expense if progress is not satisfactory.

"The experience to be gained with these contract provisions and with those adopted by the Bureau of Yards and Docks of the Navy Department ought to go a long way toward educating the public to the many urgently needed reforms in contract provisions on public work in general."

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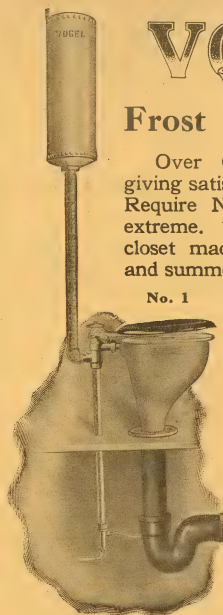
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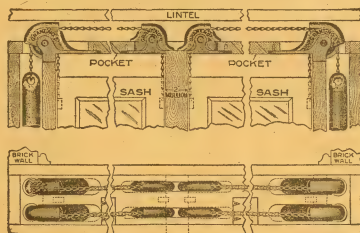
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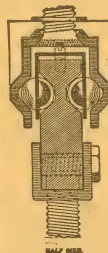
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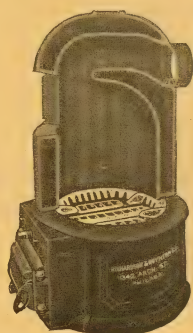
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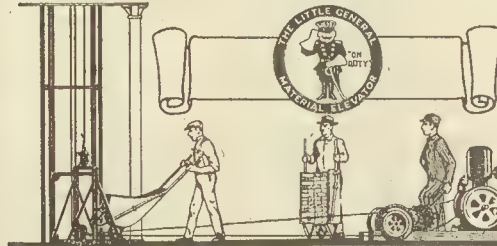


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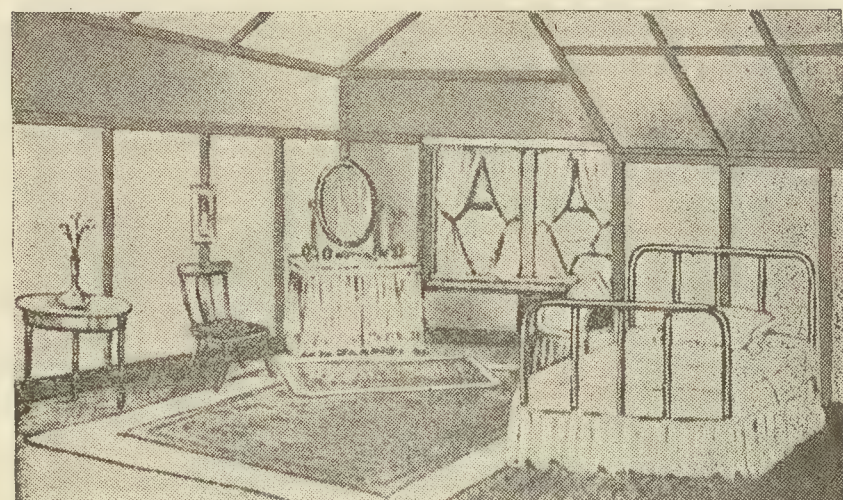
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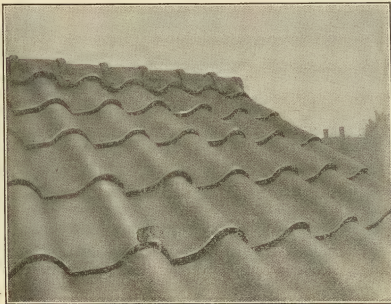
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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As The Editor Sees It



READERS of THE GUIDE will recall the remarkably inept statement, issued some time ago by Chairman Willard, of the Federal Transportation Commission, concerning curtailment of building activity as a step to the conservation of the nation's military resources. THE GUIDE took vigorous exceptions to Mr. Willard's stand, at the time, pointing out that building was quite as important to the welfare of the nation as to the individual. Dealing with this same subject the *New York Real Estate Record* remarks:

"It is possible that the several prominent financiers, extensively quoted recently in the press, have confused the building of skyscrapers, fine residences, etc., with the general building and engineering construction of the whole country, of which skyscrapers, fine residences, etc., have actually been for some time but a negligible percentage.

"When they discourage building they perhaps didn't intend to discourage necessary general building and engineering construction.

"Their remarks, however, are likely to be misinterpreted by banking houses and other institutions and to react in a disastrous way on the building organization.

"Our war problem is not that of the hundred yard dash variety, but rather that of a Marathon. Once started in this war, no man knows where or when we will finish.

"To-day we have three and a half

acres per capita under cultivation which can produce food enough for ourselves and even some for our allies. We should increase this.

To-day we have more than half the tools of industry of the world which can produce munitions and maintenance for ourselves and also some for our allies.

"We should, by construction and building, increase the plant and by organization, increase its efficiency.

"It may be desirable to change the character of the construction, but of necessity the plant must be maintained and increased.

"To stop work on the plant is to limit production as the war is prolonged, whereas we should be in a position to meet any eventualities by increasing the plant and its productivity.

* * *

DURING the past few years we have unintentionally allowed our shipbuilding industry to become disorganized and how we are now suffering for lack of shipping facilities! Shall we allow our building industry to likewise become demoralized?

"Shall we stop building bridges, piers and docks, mills, factories, power plants, railroads, freight terminals, warehouses, sewers, hospitals and institutions, training schools, fire and police stations and housing facilities, armories and cantonments?

"Have we no need for organized building trades with the support of the finan-

cial and transportation functions of the country to produce these tools of industry?

"May not the remarks of the gentlemen in question have a tendency to disorganize this industry, which has been capable of producing between two and three thousand million dollars worth of taxable and earning property each year and which will certainly be called upon to produce a large amount of construction of possibly a different kind during the coming year?

"While the above applies to war conditions, the fact must not be overlooked that all nations are preparing to protect their industrial status after the war is over. The demoralization of the building trades, at this time, will not only adversely affect the tools of industry necessary to the production of war supplies but also adversely affect the continuity and efficiency of industry when the war is over, at which time we will have serious industrial problems to meet. Nearly twenty years elapsed after the Civil War before conditions again became normal."

* * *

ON the subject of the growing demand for housing accommodations the same publication observes:

"Along with the speeding up of the numerous industries engaged in the manufacture of war munitions and supplies there has come a problem that is daily growing more acute. The produ-

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cers of these commodities have had occasion to vastly increase their working forces, making inducements to laborers, both skilled and unskilled, to come to them from other employments and from distant parts of the country. These workmen, many with their families, must be adequately housed in order that the maximum of working efficiency be maintained. The problem of housing them in commodious and sanitary structures is now a paramount issue in the eyes of both employers and Federal authorities and definite steps have been instituted to alleviate the present intolerable housing situation.

"In the cities of Bridgeport, Conn., Akron, Ohio, Norfolk, Va., Bayonne, N. J., and Chester, Pa., the conditions under which the laborers in the munition factories are living are such that immediate relief should be provided so that proper prosecution of the industries may be possible. The factory operatives in these cities have steadily increased in numbers since the commencement of the war. The housing facilities have not been extended in proportion, therefore the workers to-day are herded into quarters originally designed for a fewer number of occupants. The sanitary conditions are bad. They are the result of crowded conditions of the living quarters that call for relief measures on a large scale.

* * *

THE National Housing Association discussed this problem at its recent annual meeting in Chicago. The Federal Government is making a careful investigation into the situation with the prime idea of instituting prompt measures for effecting improved conditions in the living accommodations of these workers. The Government has held hearings before the Advisory Commission of the Council of National Defense to devise ways and means for adequately housing the thousands of munition factory operatives. Various plans have been suggested, one of which is that the Federal authorities advance funds to the producers of munitions for the erection of homes for their operatives. Another plan calls for the formation of housing associations in the afflicted cities, particularly those centers where the need is acute and have these bodies arrange for the financing and erection of the required number of accommodations. A third plan is to have the Government purchase the land in the cities and erect standardized homes which could be rented to the workers at moderate terms. This plan seems to be the least feasible of the three as the Government is manifestly not in the real estate or building business and at present has sufficient problems in its successful conduct of war activities.

"The solution will not be a matter that can be decided in a moment, but will only be arrived at after long and careful deliberation and consideration of all the conditions involved.

* * *

AN investigation, set afoot by the Material Men's Exchange of New York City, with a view to determining the causes for the depression in speculative building, now bids fair to go beyond the purely local confines to which, originally, it was limited and to become a national movement. Builders' Exchanges in the various cities are taking the matter up with a prospect that there may result a concerted and practically nation-wide drive to stimulate operative activity.

* * *

KEITH'S MAGAZINE, under the heading of "The Gospel of Better Homes," embodies some homely but sound philosophy on the subject of the community influence of good building. Says *Keith's Magazine*: "It is a generally conceded fact that the building of a beautiful home in a community, immediately increases the value of real estate in that vicinity. The result is apt to be like the story of the Japanese print in the garishly furnished home, which eventually brought the whole furnishings of that home to its own artistic level. Men who make their neighbors desire better things are an asset to their community; and just so, a beautiful home is a sermon in material form; not a thought expressed once and possibly forgotten, but enduring, just in proportion to the enduring equality of its own beauty.

"No point in the psychology of living is more insistent than the influence of the home on the development of the growing generation. We read, 'All children advertise the quality of the home from which they come.' And again, 'The home is the greatest manufacturing plant in the world, because in it, are created the bodies and brains of the men and women of the world.' 'Whatever enters the home, whether thoughts, or material substances, will be manifested sooner or later in the people who live in that home.'

"The nation can never be thoroughly true and wholesome, in living or in politics while the home is filled with insincerity either in its spirit or in its building construction. The living contact with and the tolerance of insincerity in its many forms bites deep into the character, and even more especially when it is in its formative stage. The funny sayings of children, 'the wisdom of babes,' comes from the childish insight which sees straight to the heart of things, for 'they do not understand' the traditions

and formalities in which we unconsciously wrap ourselves. Their standards are set and fixed indelibly by the casual things about them which beat in on the forming, subconscious mind, often more so than by the things conscientiously taught to them.

"Every man who is building either for himself or for others is coming to realize the actual cash value of all these palpable, almost indefinable, things which the commercial spirit disregarded. To realize that comfort, convenience and beauty will bring a higher rent and a bigger selling price, as well as secure a more satisfactory home.

"After the war it will be found that the country has so far outgrown its housing that it will be necessary for builders to turn away the work which will crowd their every facility. The house builder should realize that the cost of building cannot materially decrease in this country, for remember that Europe is to be rebuilt. There will be a foreign market ever increasing the demands for American-made products."

* * *

ONE result of the European war which will have a far-reaching effect will be the determination on the part of many of the manufacturing countries to require that all goods offered for sale, either domestic or export, shall carry a mark denoting the country of origin.

It is not generally known that the term "Made in Germany" was not a matter of choice on the part of German manufacturers, but was first required by England as a means of identification on all goods imported from Germany on account of the inferior goods competing in the English market. Improvement was immediate and marked when identification was required, until the mark came to stand for high-grade goods.

England has long had respect for the product of English factories, says the *Wall Paper News*, and the term "Made in England," as a distinguishing mark, has been promoted by patriotic pride rather than as a requirement of law. The same considerations are true of things made in Canada, and there have been many "Made in Canada" fairs, for the purpose of emphasizing the brands and qualities of home products.

France has now through the Union Nationale Inter-Syndicale Des Marques Collectives adopted the initials, U. N. I. S. and the word France, as a guarantee of French origin.

* * *

TO prove the building fireproof, Edward F. Croker, one time chief of the fire department of New York City, is said to have burned up the con-

tents of one room in his home at the housewarming recently. He deliberately set it on fire and then asked his 150 guests to sit down to an elaborate dinner without doing more than closing the door to the room in which the fire was raging.

Ex-Chief Croker did not call a fire department—he did not want any; in fact, he wouldn't allow anyone to try to stop

it, and, there is no insurance on his property.

One of Mr. Croker's hobbies is fire prevention. He has for some time insisted that fire in residences were things that could be controlled, if they could not be absolutely prevented, and built a house to prove it, and incidentally to live in. To demonstrate that the house is unburnable, he gave his housewarming.

EDITORIAL NOTES

The Hardware Manufacturers' Association at its recent convention at Atlantic City elected officers as follows: President, Charles W. Asbury, of Philadelphia; vice-presidents, Frederick H. Payne, of Greenfield, Mass.; A. W. Stanley, of New Britain, Conn., and Frank Baakes, of Chicago; members of the Executive Committee, George T. Bailey, of Pittsburgh; W. D. Biggers, of Detroit; D. A. Merriman, of Chicago; W. J. McCurdy, of Catasauqua, Pa.; J. C. Schmidt, of York, Pa.; J. I. Andrews, of Pittsburgh; Seneca G. Lewis, of Jeannette, Pa.; H. Sanborn Smith, of Birmingham, Ala., and secretary-treasurer, F. D. Mitchell, of New York, who was re-elected.

The National Hardware Association of the United States, composed of wholesalers and jobbers, elected the following officers: President, C. A. Knapp, of Sioux City, Ia.; first vice president, Bruce Hayden, of San Francisco; second vice-president, J. B. Silliman, of Atchison, Kan.; secretary-treasurer, T. James Fernley, of Philadelphia; members of the Executive Committee, Frederick F. Luecke, of Milwaukee; W. H. Dunlevy, of Philadelphia; F. A. Heitmann, of Houston, Texas; A. H. Decatur, of Boston, Mass.; members of Advisory Committee, W. S. Wright, of Omaha, Neb.; J. D. Moore, of Birmingham, Ala.; Robert M. Dudley, of Nashville; W. D. Taylor, of Cleveland, and A. J. Bihler, of Pittsburgh.

American Iron and Steel Institute held its autumn meeting at the Hotel Sinton, Cincinnati, Ohio, October 26-27. The entertainment committee consisted of the following: James I. Stephenson, Cincinnati Iron and Steel Co.; John E. Woods, Carnegie Steel Co.; B. W. Lamson, Bourne-Fuller Co.; Buckner Wallingford, Walter-Wallingford & Co.; D. B. Beacham, Rogers, Brown & Co.; George M. Verity, American Rolling Mill Co., and Thomas Quinlan, Cincinnati Chamber of Commerce.

Standard Concrete Steel Company, formerly of 413 East Thirty-first street, has opened new offices in the Tilden Building, 105 West Fortieth street, New York City. The company is represented by Mr. Mason, William C. Tobey, William R. Hughes and Frederick Selar.

Edgar I. Mills, who has been identified for a number of years with the export branch

of the steel industry, has joined the iron and steel department of the Federal Export Corporation. Mr. Mills resigned from the American Steel Export Company October 1 to assume his new duties.

The Vulcan Steel Products Company has opened an office in Havana under the management of G. O. Simpson. In connection with this office there will be maintained a permanent exhibition of machinery and steel and iron products, in which the company deals.

More than \$8,000,000 has been added to the 1918 budget of New York City on account of the imposition of the State direct tax. Property owners who have been watching with alarm the steadily advancing cost of municipal government should begin to realize that a goodly share of the city's financial burden is traceable to mandatory State requirements.

Government construction work continues to predominate this week in the building field. The activity is widely scattered and substantially all parts of the country will reap the benefit of the immense volume of work already under construction or contemplated for an early start. This phase of building endeavor is to-day more active than it has been since the entry of the nation into the war. Almost every day there are announcements of additional operations added to the already heavily loaded program. New projects are being presented to the trades for estimates, and appropriations granted by Congress for others. The work includes large additions to training stations and cantonments, base hospitals and the erection of vast storage and warehouses for military purposes. The building program of the Government might now well be said to be thoroughly under way. The more recently projected operations are for the most part permanent structures that will be a part of the enlarged regular army establishment.

The inability of obtaining prompt deliveries of fabricated steel for building purposes is responsible for withholding a number of important projects from active construction. The price situation is not so tense as is the question of deliveries. There have been fewer operations presented for estimates this week, architects and owners seeming willing to de-

lay their projects in the hope of considerably reduced material prices and a settlement of the labor difficulties.

The market for building materials and supplies with few exceptions is quiet, with prices holding firmly at the levels that have now maintained for some months. The structural steel situation is still unsatisfactory and it is mainly for this reason that the building situation is in the stagnant condition that it is. Brick, terra cotta, cement, lime, and other basic materials are easy, with deliveries practically assured and prices stabilized. There is no present indication of a marked price movement in any direction, although it is difficult to forecast exactly what would be the effect of a sudden increase of building activity.

One of the most encouraging features of the current situation is the fact that there seems to be a better feeling on the part of the speculative interests to commence the operations they have contemplated for many months. Architects interested in this class of work are hopeful for the future and many have advised their clients that the present time is an excellent one to make preparations for an early start. Material prices, with only a few exceptions, are not likely to be substantially lowered, and in view of the fact that the demand for housing accommodations is still unsatisfied the opportunity for the speculative builder seems to be close at hand.

As the result of the meetings recently held by the New York Committee on the Alleviation of Building Stagnation, and its various sub-committees, at least two important things have developed. In the first place, it has been established that the movement is one of vital importance not only to the building trades, but also to the community at large, and second that there is a field for a permanent organization which could care for questions of importance along these lines, as they might arise. The expansion of the campaign throughout the country has taken tangible shape. Austin L. Black, of the "American Contractor," stated that his paper has authorized his going to Chicago, Boston, Philadelphia, and other leading metropolises, in order to inaugurate the movement. It is proposed that the committees in the various cities will co-operate with the New York City Committee, and as the result have a convention which will be national in scope.

Secretary of the Interior Lane has authorized the establishment of a mining experiment station at Columbus, Ohio, under the jurisdiction of the Bureau of Mines, the station to represent the ceramic industry of the United States. Columbus was selected as the site for the station because it is the capital of the State recognized as the center of the clay-working and allied industries, and also because the Bureau can work in co-operation with the School of Ceramics at Ohio State University and also gain the expert advice of Prof. Edward Orton and Prof. Arthur S.

Watts, noted authorities of the subject of ceramics, who are connected with that school.

* * *

Manufacturing of building material in France is virtually paralyzed from the lack of labor, or diversion of labor to more warlike things. Therefore that country must look elsewhere for its brick, terra cotta, cement and specialties. The United States has already begun to supply the Frenchmen's needs. A large shipment of bricks was made last week, and it is undoubtedly the forerunner of shipments of other building products. Architectural terra cotta should make an especial appeal to the French esthetic taste, and the American manufacturer may find this a big field. But outside of its architectural possibilities, terra cotta will permit France to rebuild not only quickly but permanently.—Exchange.

* * *

The American Institute of Architects has

decided not to hold its usual convention this year on account of the war. Many members have joined the colors, while others report business so uncertain that they do not feel in a position to attend the convention with its accompanying expenses.

* * *

The plan to buy cement in bulk which is being advocated by the Cement Association, has many advantages. It is stated that a positive economy can be effected in almost all large concreting operations by purchasing cement in bulk when carload lots are required. It is estimated that the efficiency of handling bulk cement in wheelbarrows is fully 10 per cent. greater than in handling it in sacks. There is a considerable saving in cement lost in sacks and of time in emptying, examining, and packing sacks, beside the direct cost of sacks. On large jobs special conveyors are efficient for unloading the cars and delivering the cement to the concrete mixer.

crease the membership. The membership should shortly grow to several hundred, perhaps several thousand, depending on the sub-contractors, as to whether they will join. This organization will, in time, be one of the most powerful in this city. The business as conducted by the thousands of sub-contractors amounts to millions of dollars annually. The organization has almost unlimited power and control. The by-laws, business forms, books, etc., have been examined, necessary changes were made, now the aforesaid are in proper legal form, so the association can conduct the business in a perfectly legitimate and safe manner.

It is an admitted fact that the average man in business does not know how to handle limits of credits, proper way and time to make collections, sign contracts which are fair and equitable, nor is he in a position to demand arbitration, etc.

The wonderful corporations which we have in this country, the office is sub-divided into many departments, viz., general manager, assistant manager, purchasing agent, sales manager, credit manager, collection department, publicity department, legal department, etc. The average man in business must handle, himself, all of these many perplexing problems. The large mercantile agencies inform us that ninety per cent. of the failures each year are among small concerns that are rated five thousand dollars or less. This is evidence enough that the average business man has too many details to look after to make his business a success.

It is admitted that a credit association, in any one distinct line in the building trades, is not a complete success, owing to the fact that purchasers of building materials only make special efforts to pay promptly concerns who have a superior system of extending credit.

This association proposes drafting a uniform contract, which will eliminate many of the objectionable clauses which are now embodied in many of the so-called "uniform" contracts now in general use.

The material concerns furnish the materials and labor, why should they not state their own conditions and terms of sale. The manner of doing business, at present, is not conducted along the lines now in general use in other lines of business. The present manner of doing business is to receive fifty to ninety per cent. the 15th of the month for labor and material furnished during the preceding month, the balance is paid at some future time, after the building has been occupied and accepted by the owner, architect, and general contractor. The limited profits, in the respective lines, do not permit of extended terms of sale, as aforesaid.

This association proposes to make a speciality of collection of over due accounts. The cost of same will be nominal, and will be a material saving to the members.

Efforts will also be made to keep a close watch regarding the matter of mechanics' liens, transfers of real estate, judgments filed, mortgages recorded, etc.

CREDIT ASSOCIATION OF THE BUILDING TRADES ORGANIZED

New Association Meets a Long-felt Commercial Need and Will Keep Members Posted on Market Conditions and Place Philadelphia on an Equal Footing with the Building Industry of Other Large Cities.

A new organization of the Philadelphia building trades has been formed under the name of the Credit Association of the Building Trades of Philadelphia.

Officers have been elected as follows: A. D. Weber, president; William P. Thompson, treasurer, and M. G. Sellers, secretary. An executive committee has also been formed. The new association has established headquarters at 1518 Sansom street.

This association is incorporated under the laws of the State of Pennsylvania. Organized to foster the welfare, reform abuses and in all lawful ways promote and protect the business interest of the members. The monthly and special meetings featured by exchange of ideas and addresses on difficult problems in conducting business.

This association is the result of the untiring efforts of the president, A. D. Weber, who is connected with the Building Trades as treasurer of the O. M. Weber Co., Inc., manufacturers of wood work. This work has covered a period of twelve or more months of strenuous effort on the part of the president. Associated with him is the secretary, Mr. M. G. Sellers, with offices at 1518 Sansom street, who has had a wide experience in association work, and the association is very fortunate in securing so competent a man to take general charge of the compiling of records and the general management of the association during the daily course of business. The office of secretary (not a member of the association), being therefore appointive under the by-laws, Mr. M. G. Sellers was selected and duly sub-

scribed to the necessary oath of office in the discharge of his duties.

Also associated with the president is Mr. William P. Thompson as treasurer, a gentleman of wide experience and superior intelligence, who will also take an active interest in the general management.

In the first public official bulletin covering the activities of this organization, it is appropriate to announce that the charter was duly granted in the Court of Common Pleas, No. 1, on July 12th, the objects as expressed therein being:

"To encourage trade, receive and supply to the members information as to commerce, exchange, credits, markets, to compose differences, collect debts and in all lawful ways to conserve and advance the business interest of its members."

The by-laws, working and arbitration rules and various form letters specially designed for use in conducting the affairs of the association have been duly approved by counsel of recognized standing in corporation law.

The charter members are A. D. Weber, William P. Thompson, R. C. Williams, Jr., E. B. Newcomer, Daniel Adams, and E. P. Henry. These gentlemen's names will be framed and be recorded on the original minutes of this organization as benefactors for the successful continuance of the many respective kinds of business which are identified with the general construction business.

This association will soon be in active business. The present membership is growing. A strenuous effort will now be made to in-

The association also proposes to make every effort to arbitrate accounts in dispute, wherever possible, so as to eliminate the necessity of bringing suit, with the endless expenses for attorney's fees, court charges, delays in payment, etc.

The association also proposes to take an active interest in local, State and Federal legislation, so the members' best interests are properly taken care of.

The association therefore is covering a wonderfully broad field and should be one of the most powerful organizations in this State.

The association will operate over a radius of fifty or more miles from City Hall; in fact, will furnish reliable information throughout the territory as aforesaid.

The successful handling of credits, contracts, etc., has never been more important than right now, owing to the strenuous times which we are now experiencing, owing to the war.

The sole governing power of the association is vested in the Executive Committee, comprising the following, and representing the respective lines of business, viz.: A. D. Weber, wood work; William P. Thompson, steam heat-

ing; R. C. Williams, Jr., electric; E. P. Henry, tile; H. W. Geshwind, cement and asphalt.

This Executive Committee will be increased as the membership is increased and the respective lines of trade delegate an individual to represent their association.

This committee will exercise their skill to practice economies in credit granting that will tend to the reduction of unnecessary waste and losses. With the exercise of reasonable liberality, together with the exercise of reasonable prudence on commercial economy, so as to enable the members to give credit in such form and manner and under such conditions as to keep the channels of business at an even flow, but to discourage every form of credit gambling and mere chances that are wasteful to the giver and either harmful to the receiver or which encourage schemes of commercial deception and fraud.

This association proposes entering into an understanding or an agreement with a similar association operating in Manhattan, Bronx, Queens, Brooklyn and Harlem, New York City. This association has had ten years' experience, and has been wonderfully successful.

ber Trade Ass'n; F. S. Hanley, Eastern Supply Assoc.; G. Osgood Andrews, Plate Glass Mfrs. of America; Hurd, Portland Cement Ass'n; Arthur B. Pendleton, Nat. Terra Cotta Soc.; Herbert D. Lounsbury, Jos. Paterno, Col. John B. Rose, Arthur K. Mack, Record and Guide; Wm. K. Hammond; H. M. Keasbey, Hon. Ernest R. Ackerman, Michael Cohen, Geo. E. Gifford, Sec'y Bridge Builders and Struct. Soc.; Allen E. Beals, Herman Plaut, Lighting Fixture Assoc.; A. E. Davidson, Edward Margolies, Harry Alexander, S. J. Treat, Sec'y Assoc. Dealers in Bldg. Mtls., and Wm. H. Powell.

Committee on Supply and Price of Mortgage Money: C. J. Curtin, Audley Clarke, Vice-Pres., Credit Asso. of Building Trades of New York; Walter Stabler, Comptroller Metropolitan Life Insurance Co.; Walter Lindner, Solicitor Title Guarantee & Trust Co.; William E. Knox, Comptroller Bowery Savings Bank; Frederick A. Snow, Joseph Paterno, William H. Rockwood Mills, Edward Margolies, F. C. Zobel, Orin F. Perry, John F. Calhoun and Robert J. Grannis, Jr.

Committee on Building Laws: Franz Neilson, Sec'y Credit Ass'n of the Bldg. Trades; L. W. Harrington, Pres. Credit Ass'n of the Bldg. Trades; Orin F. Perry, F. C. Zobel, Frank E. Conover, Cass Gilbert and Robert D. Kohn.

Committee on Supply and Price of Labor: Walter T. Smith, Charles E. Cheney and Charles Burns.

It is a foregone conclusion that rentals will not recede, anyway for many years to come. One reason can be attributed to the fact that building costs have been advanced through the multitude of legislation which has forced builders to follow certain lines. While houses have been improved and are safer in many ways, still the question of cost comes up again.

The Committee has taken into consideration and approved of the policy of the Government as to deliveries of materials. Naturally the Government is the first to be supplied and then its Allies, and finally the private consumer. It is believed, however, that ways and means will be found by which there will be enough surplus left, after the Government has obtained its requirements, to fill the demand of the private consumer.

The next meeting of the Committee of the Whole was set for Tuesday October 16, at three o'clock, in the offices of the Building Materials Exchange, Room 1022, Woolworth Building, New York City.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

NEW YORK MATERIAL EXCHANGE INVESTIGATING BUILDING CONDITIONS

Committee Appointed to Examine into the Underlying Causes of Depression in Certain Structural Lines and to Promote a Return to Normal Activity.

The movement recently started to stimulate building construction, not only in New York City, but also in the surrounding territory, received impetus, through a meeting held at the office of the Borough President of Manhattan.

The Building Material Exchange, which was the inaugurator of the movement, is using every endeavor to examine into the conditions as they exist to-day, and what the immediate future will bring forth. To this end five sub-committees were appointed at the meeting, having for their provinces the following subjects:

First, whether a demand exists for new building construction, and to what extent; second, the supply and price of building materials; third, the supply and price of labor; fourth, the money situation, and fifth, legislation.

President Elliott Smith, of the Candee, Smith & Howland Company, was appointed chairman of the Committee of the Whole. He voiced as his opinion that small sub-committees were undesirable, inasmuch as the tendency would be to let one or two men do the work, and interest might flag. On the other hand, Mr. Smith contended that everyone on the Committee as a Whole should be represented on such sub-committees as he might be best fitted for,

and thus get a real expression of opinion and obtain a solution of the problem.

It is proposed that the sub-committees meet at stated times, and then report, say once a month or oftener, to the entire body, thus all will be conversant with what is going on and might be in a position to make helpful suggestions.

The following is the personnel of the various committees:

Committee on the Demand for Buildings: Laurence McGuire, Pres. U. S. Realty & Construction Co., and Real Estate Board of New York; H. H. Murdock, Real Estate Board; Henry Atterbury Smith, N. Y. Chapter Amer. Ins. of Architects; Thomas Rock, Central Federation Union; Arthur K. Mack, Record and Guide; Walter T. Smith, Geo. A. Fuller Co.; Roy Wingate, Cauldwell-Wingate Co.; Ernest L. Smith, Fred T. Ley Co.; Philip Hiss, Chairman of Housing Section, Council of National Defence; John J. Radley, Hugh Getty, Pres. Building Trades Employers' Asso., and R. A. Bartholomew.

Committee on Supply and Price of Materials: C. J. Curtin, W. C. Shultz, Audley Clarke, Vice-President Credit Assoc. of Bldg. Trades of New York; F. N. Howland, Pres. Assoc. Dealers in Bldg. Material; Russell Johnson Perrine, Pres. N. Y. Lum-

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Service Building, Erie avenue and Twentieth street, Philadelphia. Architects, The Watson Engineering Co., Cleveland, Ohio. Owners, The White Co., 216 North Broad street, Philadelphia. Reinforced concrete and stone, 1 story and mezzanine floor, 253x243 feet, slag roof, cement and pine floors, metal lath, hollow metal skylights (heating and lighting reserved). Owners, care of W. P. Brown, have received bids.

Bakery, 1229 Federal street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Sessinia, 1439 Wharton street, Philadelphia. Stone foundations, brick, 2 stories, 15x55 feet, slag roof, cement and yellow pine floors, electric lighting, tile work, hollow metal skylights, flush bulks, metal ceilings, concrete and steel subway, brick ovens. Owner will sub-let all contracts.

Store and Service Building, 1821 Chestnut street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owners, Willis-Winchester Co., 1001 Chestnut st., Philadelphia. Brick and ornamental terra cotta, 2 stories. Architect has received bids.

Store (alt. and add.), 3222 North Front st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, John M. Kennedy, Jr., 1001 Chestnut street, Philadelphia. Brick, 2 stories, 14x15 feet, slag roof, yellow pine floors, hot water heating, plumbing, electric lighting, tile and marble work, flush bulks, metal ceilings. Owners will be ready for bids in about one week.

Residence and Garage, Twelfth and Wyoming avenue, Philadelphia. Architect, private plans. Owner, Henry P. Schneider, 3717 Old York Road, Philadelphia. Brick, 2 stories, 16x56 feet, and 1 story, 12x20 feet, slag roof, hot water heating, electric lighting, hardwood and cement floors, tile work. Owner taking sub-bids.

Factory, Torresdale avenue and Orchid st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Pechin Belting Co., care of Mr. Andrew MacAllister, on premises. Stone foundations, brick, 1 story, 33x100 feet and 62x75 feet, L shape, slag roof, concrete floors, steel work, millwork, roof ventilators. Plans in progress. Architect will take bids in about ten days.

Factory, Wayne and Roberts avenues, Germantown. Owners, The Brown Instrument Co., Wayne avenue and Windrim street, Philadelphia. Brick. Too early for details. Work contemplated.

Dispensary, Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 2 stories, 36x86 feet, slag roof, composition floors, steam heating, electric lighting, tile and marble work, metal lath, roof ventilators, waterproofing, wire work. Low bidders: McCloskey &

Bahls, lowest bidder; Evans Const. Co., second low bidder; Lam Building Co., third low bidder.

Store and Residence (alts.), 1231 Federal street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, S. Sessinia, 1420 Wharton street, Philadelphia. Brick, 3 stories, consists of general interior and exterior alterations. Owner will sub-let all contracts.

Salvage Storage Building, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Frame, 1 story, 90x80 feet, ready roofing, plan floors. Low bidders, McCloskey & Bahls, 1620 Thompson street, Philadelphia, \$4,375.

Store Building (alt. and add.), Moyamensing avenue and Clarion street. Architects, Louis Magaziner & Victor Eberhard, 603 Chestnut street. Owner, Wm. Bacharach, on premises. Brick, general interior and exterior alterations, slag roof, brick work, millwork, partitions, electric wiring, plastering and plumbing. Architects have received bids.

Building (fire repairs), 514 North American street, Philadelphia. Architect, private plans. Owners, City of Philadelphia, City Hall, Philadelphia. Consists of interior alterations, mill work, plastering, painting. Owners have received bids.

Marine Barracks, Navy Yard, League Island, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, brick and stone, 3 and 3½ stories, 280x54 feet, three wings 48x39 feet, slate roof, asphalt and composition floors, steam heating, electric lighting, waterproofing, iron stairs, ornamental iron work, fire doors. Owners taking bids, due November 15th. Cramp & Co., Denckla Building; Warren-Moore & Co., Colonel Trust Building; W. W. Anstine Co., 1218 Filbert street; Wm. R. Dougherty, 1610 Sansom st.; Roydhouse-Arey Co., 112 North Broad street; McCloskey & Bahls, 1620 Thompson street, and Chas. McCaul Co., 1713 Sansom street, are figuring.

Office Building, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Col. George Montgomery, Frankford Arsenal, Philadelphia. Frame, 2 stories, 75x40 feet, Ready roofing, vacuum heating, roof ventilators, waterproofing. Owner has received bids.

Dwellings (27), Pelmetto and Estaugh sts., Philadelphia. Architect, private plans. Owners, Finestone & Mittleman, 1014 East Tioga street, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, pine floors, hot water heating, combination lighting. Owners taking sub-bids.

Office, Stable and Shed, Tulip and Almond streets, Philadelphia. Architect, Maurice

Golden, Crozer Building, Chester, Pa. Owner, Joseph Hymen, 2859 Tulip street, Philadelphia. Brick and metal, 1 story, 16x26 feet, 16x30 feet and 57x24 feet, slag roof, pine and cement floors, electric lighting, metal lath. Owner has received bids.

Manufacturing Building (alts.), 846 North Eighth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner's name withheld. Brick, 3 stories, 50x100 feet, elevator, fire towers. Plans in progress.

Mill Building (add.), Thirtieth and Reed streets, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Murphy & Bro., Sixteenth and Fitzwater streets, Philadelphia. Brick, 1 story, 100x35 feet, slag roof, lantern top skylights (plumbing, heating and electric lighting reserved). Owners are sub-letting all contracts.

Residence (alt. and add.), 4140 Leidy avenue, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, A. Levin, 526 South Thirteenth street, Philadelphia. Brick, 1 story, slag roof, hardwood floors, electric lighting, tile work, plumbing. Plans completed. Owner taking bids.

Boiler House and Connecting Bridge, Thirty-first and Jefferson streets, Philadelphia. Architect, Charles H. Caspar, 925 Chestnut street, Philadelphia. Owners, F. A. Poth & Sons, Inc., on premises. Brick, concrete and steel, 2 stories, 50x41 feet, slag roof, concrete floors, kalamein doors. Engineer taking sub-bids in all lines.

Store and Service Building, 1821 Chestnut street, Philadelphia. Architect, Fred N. Greisler, Lafayette Building, Philadelphia. Owners, Willis-Winchester Co., 1001 Chestnut st., Philadelphia. Brick and stone, 2 stories, 20x160 feet, slag roof, cement and pine floors, vapor heating, electric lighting, tile and marble work, hollow metal sash and skylights, metal lath, metal weatherstrips, dampproofing. Architect has received bids.

Residence (alt. and add.), 1728 South Broad street, Philadelphia, \$7,500. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owners, Augustine Social and Beneficial Society, care of architects. Brick, rear addition, 2 stories, 20x21 feet, side addition, 2 stories, 32x5 feet, slag roof, electric lighting, hardwood floors, slate work, dumb waiters, bar fixtures, hollow metal skylights (plumbing and heating reserved). Plans completed. Architects ready for bids.

Processing Shop and Power Plant, Frankford, Philadelphia, \$80,000. Architect, private plans. Owners, Winfield S. Barnes & Co., 1614 Cherry street, Philadelphia. Brick, 1 story, 240x100 feet and 40x60 feet, saw tooth roof, plan floors, electric lighting, rolled steel sash. Plans completed. Owners will sub-let.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bank (alts.), 431 Chestnut street, Philadelphia, \$7,700. Architect, A. B. Lacey, 1012 Walnut street, Philadelphia. Owners, Tradersmen's National Bank, on premises. Consists of new mezzanine floor, brick and steel, maple floors, electric lighting, tile work fire doors, safety treads, metal bath, iron stairs, ornamental iron work. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Factory Building, Wayne and Windrim avenues, Philadelphia, \$4,000. Architect, private plans. Owners, The Brown Instrument Co., on premises. Brick, stone foundations, 2 stories, 30x24 feet, slag roof, yellow pine floors, plastering, electric lighting. Contract awarded to R. C. Ballinger & Co., 218 North Thirteenth street, Philadelphia.

Residence and Garage, Pleasant and Crittenden streets, \$22,500. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Germantown, Pa. Stone, 3 stories, 50x29 feet, and 3 stories, 29x22 feet, slate roof, hot water heating, electric lighting, tile and marble work, oak and cement floors. Contract awarded to A. S. Tourison, Jr., 7014 Boyer street, Germantown.

Barn and Wagon Shed, Southampton and Worthington Road, Philadelphia, \$5,500. Architect, private plans. Owner, G. C. Frammer, Somerton, Pa. Frame, 2 stories, 38x74 feet, 18x46 feet and 22x32 feet, shingle roof. Con-



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stories, 35x11 feet and 16x24 feet, shingle roof, tile work (heating, plumbing and electric work included). Contract awarded to Chas. Johnson, 5701 Boyer street, Germantown.

Police Stations (3) (alts.), 1417 N. Nront street, Fourth and York streets, and Seventh and Carpenter streets, Philadelphia, \$15,097. Architect, Jas. A. Roletter, room 825 City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Safety, City Hall, Philadelphia. Consists of brick work, slate and tin roof, oak, pine and composition floors, tile work, ornamental iron work, metal lath, safety treads, metal ceilings, wire work (plumbing, heating and lighting reserved). Contracts awarded to E. C. Durell, 1713 N. Twenty-fourth street, Philadelphia.

Store and Dwelling (alt. and add.), northwest corner Tenth and Bainbridge streets. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Barney Politz, Ninth and Bainbridge streets, Philadelphia. Brick, rear addition, 4 stories, slag roof, hot water heating, tile work, electric lighting, yellow pine floors, cabinet work, metal bulks and ceilings. Contract awarded to Frank & Kaiser, 1522 North Sixth street, Philadelphia. (Note change in contractor.)

Cafe and Dwelling (alts. and add.), Sixty-second and Walnut streets, \$4,000. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, Wm. Moenehan, on premises. Brick, 2 stories, 20x28 feet, 1 story, 16x25 feet, slate roof, composition roof, hot water heating, electric lighting, hollow metal sash. Contract awarded to Raith Const. Co., 304 Master street, Philadelphia.

Mill Building, Sixteenth and Hunting Park avenue, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Bellevue Worsted Mills, care of Benj. W. Greer, Wistar street and Pennsylvania

tract awarded to Wm. D. Bubeck, Somerton, Pa.

Restaurant and Residence (add.), 1419 Ridge avenue, \$3,300. Architect, private plans. Owner, John B. Doland, 1419 Ridge avenue, Philadelphia. Brick, 1 story, 26x31 feet, slag roof, pine floors, flush boilers. Contract awarded to Samuel J. Rea & Son, 1608 Ridge avenue, Philadelphia.

Garage, Fifty-fifth and Chestnut streets, Philadelphia, \$15,000. Architect, private plans. Owner, Wm. Calhoun, 5737 Cedar ave., Philadelphia. Brick (slow burning construction), 1 story, 55x203 feet, slag roof, gas heating, electric lighting, hollow metal skylights, roof ventilators, cement floors. Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia.

Garage, Forty-sixth and Ludlow sts., Philadelphia, \$30,000. Architect, private plans. Owner, M. T. Lucas, Forty-eighth and Chestnut streets, Philadelphia. Brick, slow burning construction, 1 story, 98x115 feet, slag roof, steam heating, electric lighting, cement floors, hollow metal skylights, roof ventilators. Contract awarded to J. D. Fisher, 5414 Thompson street, Philadelphia.

Residence (alt. and add.), 6314 Wissahickon avenue, Germantown, \$9,000. Architect, J. Horace Frank, Real Estate Trust Building, Philadelphia. Owner, Frank B. Johnston, 6626 McCallum street, Germantown. Brick, 2½

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Railroad, Philadelphia. Reinforced concrete, steel and brick, 3 stories, 61x412 feet, slag roof, cement and maple floors, hollow metal sash, fire doors, kalamain doors, roof ventilators, metal window guards, wire work (heating, lighting and elevators reserved). Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Garage, 2003 Cambridge street, Philadelphia, \$3,000. Architects, A. J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, G. A. Muller, 2014 Girard avenue, Philadelphia. Brick, 1 story, 28x42 feet, slag roof, cement floors, electric lighting, Wasco heating. Contract awarded to Philip Haibach Cont, Co., Twenty-sixth and Thompson streets.

Factory (alts.), southwest corner of Eighth and Noble streets, Philadelphia. Architect, Mahlon H. Dickson, Bellevue Court Building, Philadelphia. Owners, Thos. Cusack Co., 213 South Tenth street, Philadelphia. Brick, 1, 2 and 3 stories, 80x195 feet, cement and wood floors, steam heating, electric lighting, office partitions. Contract awarded to Freund Const. Co., Bulletin Building, Philadelphia.

Garage, 2115 South Eighth street, \$7,500. Architect, private plans. Owner, Sol Hopkins, 1330 Arch street, Philadelphia. Brick, 1 story, 15x159 feet and 30x15 feet, slag roof, electric lighting, cement floor. Owner will sub-let all contracts.

PENNSYLVANIA

Construction News

Sunday School, Highspire, Pa. Architect, T. H. Hamilton, Patriot Building, Harrisburg, Pa. Owners, United Brethren Congregation, Highspire, Pa. Brick, 2 stories, 32x56 feet, slag roof, steam heating, electric lighting, composition floors. Plans in progress.

Club House, Front and Trewick sts., Harrisburg, Pa. Architect, C. H. Kain, 310 Chestnut street, Harrisburg, Pa. Owners, Steelton Lodge, Loyal Order of Moose, 22 S. Front st., Steelton, Pa. Brick, 3 stories, 34x62 feet (vapor heating, electric lighting and plumbing reserved), hardwood floors, dumbwaiters, fire doors, fire escapes. Architect will take bids in about two weeks.

Residence (add.), near Newtown, Bucks Co., Pa. Architects, Fowler & Seaman, Broad St. Bank Building, Trenton, N. J. Owner, J. J. Tierney, Newtown, Pa. Stone, 2½ stories, 33x15 feet, shingle roof, pine floors. Plans in progress. Architect ready for bids in a few days.

Bungalow, Eagle road, near West Chester pike, Drexel Hill, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, Wm. Leodem, 917 Locust street, Philadelphia. Stone, 1½ stories, 38x62 feet, slate roof, hot water heating, electric lighting, tile work and marble work, plumbing, hardwood floors. Plans about completed. Architect will be ready for bids in a few days.

Twin Residences (5), Langhorne, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, North American Lase Co., Eighth and Allegheny avenue. Frame, cement stucco, 2 stories, 20x40 feet, J-M roof, hot air heating; combination lighting, yellow pine floors. Architects taking bids, due November 2d at noon. F. L. Hoover & Sons, 1023 Cherry street; Harry Brocklehurst, 512 W. Norris street; Specht & Sperry, Heed Building, Philadelphia; W. John Stevens, Inc., Wyncote, Pa., and James P.

Taylor, Langhorne, Pa., are figuring.

Store Building (alt. and add.), South Bethlehem, Pa. Architect, David Levy, Allentown, Pa. Owner, A. Potruch, South Bethlehem, Pa. Brick, consists of general interior alterations, 2 stories, 67x92 feet, slag roof, steam heating, electric lighting, marble work, pine floors, metal bulks. Owner taking sub-bids.

Church (add.), York, Pa., \$1,500. Architect, J. B. Hamme, York, Pa. Owner, Trinity Lutheran Congregation, York, Pa. Frame, 1 story, 30x30 feet, shingle roof, pine floors. Plans in progress.

Pay Station for Ammunition Plant, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., Bethlehem, Pa. Frame, 1 story, 27x44 feet, J-M Regal roof, pine floors, steam heating, electric lighting. Plans in progress.

Store and Apartments, near Allentown, Pa. Architect, Robert E. Ochs, Bethlehem, Pa. Owner's name withheld. Brick, general interior alterations, 3 stories, 32x48 feet, slate and tin roof, hot water heating, yellow pine floors. Plans in progress.

Bungalow, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem, Pa. Owner, William H. Knopp, Bethlehem, Pa. Frame, 1 story, 28x30 feet, shingle roof, hot air heating, pine floors. Plans in progress. Owner will build.

Garage, Columbia, Pa. Architect, Emilen C. Urban, Woolworth Building, Lancaster, Pa. Owners, Lincoln Highway Garage, Columbia, Pa. Brick and stone, 1 story and basement, 60x130 feet, cement floors, electric lighting, gasoline storage system. Owners ready for bids.

Office Building (alts.), Eighth and Hamilton streets, Allentown, Pa. Architects, Ruhe & Lange, Allentown, Pa. Lessee, Lehigh Navigation and Electric Co., Allentown, Pa. Consists of general interior alterations, brick, 2

SCALES AND VALVES

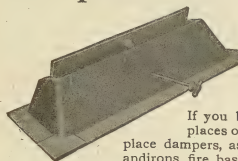
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stories, 110x40 feet. Architects have received bids.

Garage, Easton, Pa. Architect, J. W. Reilly, Buckley Building, Allentown, Pa. Owner, L. J. Mattis, Easton, Pa. Cement block, 1 story, 40x60 feet, slag roof, cement floors (hot water heating, electric lighting and gasoline storage system reserved), cement floors. Owner taking sub-bids.

Store Building, Allentown, Pa. Architect, J. W. Reilly, Buckley Building, Allentown, Pa. Owners, Perkin & Aronsky, Allentown, Pa. Brick, 2 stories, 19x50 feet, slag roof, city steam heating, electric lighting, flush bulks, pine floors. Owners ready for bids.

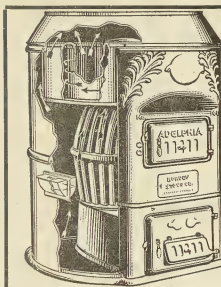
Garage and Apartment Building, Goeth and New streets, Bethlehem, Pa., \$22,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Meyer Heilberger Co., Bethlehem, Pa. Reinforced concrete and hollow tile, 4 stories, 67x43 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal sash and skylights, hardwood, pine and marbleoid floors, metal lath. Architect has received bids.

Garage, West Side, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mrs. Iva Krause, Bethlehem, Pa. Brick, 1 story, 25x25 feet, tin roof, cement floors, electric lighting. Architect taking bids, due as soon as possible. Butz & Clader, Allentown, Pa., and Frank Glassmire, Bethlehem, Pa., are figuring.

Store Fronts (2), Easton, Pa., \$4,500. Architect, H. J. Wenzelberger, Easton, Pa. Owner, Dotwiler Estate, Easton, Pa. Brick, 1 story, 52 feet front, tile and marble work, hardwood floors, metal bulks. Architect taking bids, due as soon as possible. F. J. Lerch & Co., A. A. Beechler, and A. P. Smith, all of Easton, Pa., are figuring.

Twin Residences (3), Seiple, Pa. Architect, Robert E. Ochs, Bethlehem, Pa. Owners, Penn Trojan Auto Co., Seiple, Pa. Hollow tile, brick and stucco, 2 stories, 32x25 feet, 36x30 feet, and 40x33 feet, slate and slag roofs, pine floors, hot air heating, electric lighting. Owners ready for bids.

High School, Eleventh and Fulton streets, Chester, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, City of Chester, Board of Education, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone, four stories and basement, 240x115



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feet, slate, J-M or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamein doors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work and ventilating reserved). Plans completed. Owners ready for bids.

Hotel, Fourth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208

Chestnut street, Philadelphia. Owner, George Shober, 305 Market street, Chester, Pa. Stone foundations, brick, terra cotta and concrete, 4 stories, 70x80 feet, slag roof, steam heating, combination lighting, tile work, hollow metal skylights, fire tower and fire doors, yellow pine floors, metal lath, trunk lift, roof ventilators, ornamental iron work. Architects taking bids and sub-bids, due November 12th. Hogg Const. Co., 1634 Sansom street, is the only bidder.

PENNSYLVANIA

Contracts Awarded

Storage Shed, Andalusia, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owners, Henry F. Michell Co., 518 Market street, Philadelphia. Frame and flexible, 1 story, 75x21 feet, flexible roof, electric lighting, cement floors. Contract awarded to Thomas J. Carberry, Heed Building, Philadelphia.

Garage, Andalusia, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owners, Henry F. Michell Co., 518 Market street, Philadelphia. Hollow tile and stucco, 1 story, 28x36 feet, slate roof, cement floor, electric lighting. Contract awarded to Thos. J. Carberry, Heed Building, Philadelphia.

Factory Building, Allentown, Pa. Architect, private plans. Owners, Lehigh Silk Dyeing Co., Allentown, Pa. Brick, 1 story, 186x80 feet, rubber roof, cement and wood floors (heating and electric lighting reserved), hollow tile. Contract awarded to W. H. Gange, Allentown, Pa.

Office Building (add.), Lancaster, Pa. Architect, C. Emilen Urban, Woolworth Building, Lancaster, Pa. Owners, Bearings Co. of America, Harrisburg and College avenue, Lancaster, Pa. Brick, 1 story, 36x120 feet, composition roof, pine floors, electric lighting. Contract awarded to Wm. Wiant, Lancaster, Pa.

Garage, Fulton, Fourth and Dauphin streets, Harrisburg. Architect, private plans. Owners, Harrisburg Auto Co., Hamilton and Susquehanna avenues, Harrisburg, Pa. Concrete, 1 story, 100x210 feet, slag roof, cement floors, electric lighting, gasoline storage system. Contract awarded to Joseph Pomraining, Harrisburg, Pa.

Bridge No. 82, north of Halls, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Con-

crete, stone and iron, steel and lumber, 50 feet long, metal caging, waterproofing. Contract awarded to P. J. Campion, Mahanoy City, Pa.

Gasoline and Service Station, Wilkes Barre, Pa., \$12,000. Architect, The W. G. Wilkins Co., Westinghouse Building, Pittsburgh, Pa. Owners, The Atlantic Refining Co., South Main street, Wilkes Barre, Pa. Brick, stone and terra cotta, 1 story, 30x15 feet, tile roof, steam heating, electric lighting, tile and marble work, tile and composition floors, metal lath, hollow metal skylights, waterproofing, wire work (gasoline store system reserved). Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Church, South Cameron street, Harrisburg, Pa., \$20,000. Architect, private plans. Owners, Second Baptist Church, care of Rev. Green, Harrisburg, Pa. Brick, 2 stories, 50x100 feet, slag roof, steam heating, electric lighting, pine floors. Contract awarded to Harold Hippie, Harrisburg, Pa.

Erecting Shop, Eddystone, Pa., \$500,000. Architect, private plans. Owners, Baldwin Locomotive Works, 500 North Broad street, Philadelphia. Concrete, steel, brick, 1 story. Details undecided. Contract awarded to F. W. Mark Cont. Co., Finance Building, Philadelphia.

Residence and Garage and Chicken House, Fifteenth and Bridge streets, New Cumberland, Pa., \$6,000. Architect, private plans. Owner, Marshall H. Dean, care of Elliott Fisher Co., Harrisburg, Pa. Stone and frame, 2 1/2 stories, 24x30 feet, 1 story, 13x18 feet, 1 story, 12x60 feet, shingle roof, oak and cement floors, steam heating, combination lighting, tile and marble work. Contract awarded to Hiram K. Dean, Harrisburg, Pa.

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NEW JERSEY

Construction News

Church (add.), North Delaware avenue, Atlantic City, N. J. Architect, not selected. Owner, Rev. W. M. Hebron, 108 North Delaware avenue, Atlantic City, N. J. Brick, 1 story, 42x30 feet. Work contemplated.

Residence and Garage, southwest corner Frankford and Atlantic avenues, Atlantic City, N. J. Architect, Seward G. Dobbins, 18 South Virginia avenue, Atlantic City. Owners, Hampton Bros., 4307 Atlantic avenue, Atlantic City, N. J. Brick and frame, 2 stories, 27x36 feet and 18x20 feet, slate roof, hot water heating, electric lighting, tile work, hardwood and cement floors. Owners will build.

Residence, Atlantic City, N. J., \$7,500. Architect, Seward G. Dobbins, 18 S. Virginia avenue, Atlantic City. Owner's name withheld. Brick and stucco, 2 stories, 26x40 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Plans in progress.

Residence, Ocean avenue, between Twelfth and Thirteenth streets, Ocean City, N. J. Architect, Otis W. Townsend, Ocean City, N. J. Owner, Walter H. Jarden, Chastnut Hill, Philadelphia. Brick, 3 stories, 18x34 feet, single roof, hardwood floors. Architect will build.

Manual Training and Industrial School, Bordentown, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, State of New Jersey, Board of Managers, Home for Colored Youth, Trenton, N. J. Brick, reinforced concrete and steel, 2½ stories and basement, 50x68 feet, slate and tin roof, cement and pine floors, metal lath, hollow metal doors (plumbing, heating and lighting reserved). Lowest bidder, Chas. H. Fennimore, Bordentown, N. J., \$25,092.

Farm Buildings, Atlantic Co. Asylum, Northfield, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Board of Chosen Freeholders, Northfield, N. J. Brick, 1 story (4 buildings), slag and slate roof, hollow tile and cement floors, wood sash, fire doors, roof ventilators. Plans in progress.

Post Office, Woodbury, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Govt., Treasury Department, Washington, D. C. Brick, 1 story, 55x60 feet, composition roof, steam heating, electric lighting, marble and terrazzo work, rolled steel sash, hollow metal skylights, kalamine doors, ornamental iron work, concrete floors, metal lath, safety treads, roof

ventilators, metal weatherstrips, waterproofing and dampproofing. Owners have received bids.

Laundry and School Building (alt. and add.), Vineland, N. J. Architect, F. H. Bent, Capitol Building, Trenton, N. J. Owners, Home for Feeble Minded Women, Vineland, N. J. Brick and stone, new entrance, 3 stories, 12 feet front, cement and maple floors, hollow tile, metal lath. Owners have received bids.

Dormitory, Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, New Jersey School for Deaf Mutes, State Board of Education, Trenton, N. J. Brick, 3 stories, 135x110 feet, slag roof, composition and pine floors, steam heating, electric lighting, hollow tile, metal lath, metal weatherstrips. Architect has received bids.

Residence, Morris Heights, N. J., \$12,000. Architect, W. W. Slack, St. Regis Building, Trenton, N. J. Owner, Charles H. Carver, Fallington, N. J. Hollow tile and stucco, 2½ stories, 32x43 feet, slate roof, hardwood floors, electric lighting. Architect has received bids.

Entrance Gates to the new Interstate Fair, Trenton, N. J. Architect, W. A. Kleeman, Second National Bank Building, Trenton, N. J. Owners, Interstate Fair Assn., Commonwealth Building, Trenton, N. J. Consists of small brick and stucco building, 1 story, slate roof, concrete work, iron gates. Low bidders, Burton & Burton, American Mechanics Building, Trenton, N. J.

Warehouse, west side, near Broadway, Jersey City, N. J., \$50,000. Architect, Conrad W. Neff, Sixteenth and Sansom streets, Philadelphia. Owners, Davis Bournville Co., Jersey City. N. J. Brick and reinforced concrete, 4 stories, 99x58 feet, slate roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and maple floors, elevators, sprinklers, wire work. John N. Gill & Co., Otis Building, Philadelphia, have received sub-bids.

Residence (alt. and add.), 35 Aberdeen Place, Atlantic City, \$5,000. Architect, Seward G. Dobbins, 18 South Virginia avenue, Atlantic City, N. J. Owner's name withheld. Brick and frame, 2 stories, 14x20 feet, slate roof, hot water heating, electric lighting, tile work (lighting fixtures reserved). Plans completed. Ready for bids in a week.

Restaurant, Atlantic City, N. J. Architect, Howard A. Stout, Guarantee Trust Building,

Atlantic City, N. J. Owner, Hong Kong Low, Atlantic City, N. J. Brick, 2 stories, 22x71 feet, slag roof, hot water heating, electric lighting, composition floors, flush bulks. Architect taking bids, due November 2nd at 3 P. M. W. G. Taylor & Son, P. G. Hannum, W. B. Poreh, W. S. Beaumont, and S. H. Headley, all of Atlantic City, N. J., are figuring.

Residence and Garage (alt. and add.), northeast corner of Harrisburg avenue and Thoro-fare, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Allen K. White, on premises. Brick and frame, 3 stories, 60x52 feet, slate roof (electric lighting and hot water heating reserved), tile and marble work, composition floors, elevator. Revised plans in progress.

New Jersey

Contracts Awarded

Residence (alt.) and Garage, southwest corner Oriental and Massachusetts avenues, Atlantic City, N. J. Owner, John Hohenadle, on premises. Brick, 3 stories, 72x20 feet, slate and slag roof, hot water heating, electric lighting, tile work, hardwood floors. Contract awarded to P. G. Hannum, Atlantic City, N. J.

School Building, Browns Mills, N. J. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owners, Board of Education, Pemberton Township, Pemberton, N. J. Frame, 1 story and basement, 76x52 feet, asbestos roof, steam heating, yellow pine floors, metal lath, fire doors, ventilators, hollow tile (heating reserved). Contract awarded to Conklin & Suttis, Bradley Beach, N. J.

Residence (alt. and add.), Oriental and Pacific avenues, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. Stone, 1 story addition, 24x60 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work. Contract awarded to P. J. Hannum, Atlantic City, N. J.

Fire House, Egg Harbor, N. J., \$12,794. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City Council of Egg Harbor, Egg Harbor, N. J. Brick, 2 stories, 35x81 feet, slag roof, pine floors, tile and marble work, electric lighting, metal ceilings. Contract awarded to Emil Weller, Egg Harbor, N. J.

Miscellaneous

Construction News

Machine Shop, Washington, D. C. Architect, private plans. Owners, U. S. Govt., F. R. Harris, Chief, Navy Department, Bureau of Yards & Docks, Washington, D. C. Reinforced concrete and brick, 5 stories, 502x162 feet, Gypsum composition roof, steam heating, electric lighting, pine floors, hollow tile, elevators, rolled steel sash, fire doors, hollow metal doors, ornamental iron work, wire work. Owners taking bids, due November 5th. Cramp & Co., Denckla Building, and Warren, Moore & Co., Colonial Trust Building, Philadelphia, are figuring.

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Maryland Construction News

Boiler House, Pump Room and (4) Toilet Buildings, Baltimore, Md. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, The Baltimore Dry Docks & Shipbuilding Co., Baltimore, Md. Reinforced concrete and brick, 1 story, 60x57 feet, 1 story, 10x12 feet; toilets (2), 30x14 feet, 40x14 feet and 30x15 feet, slag roof, electric lighting, electric lighting, hollow metal and rolled steel sash, fire doors, waterproofing, wire work, ornamental iron work. Architects have received bids.

Residences (5) Roland avenue, Baltimore, Md. Architect, private plans. Owners, Globe Realty Co., 2903 Laurens street, Baltimore, Md. Brick, 2½ stories, slate roof, electric lighting, hot water heating, plastering, plumbing, tile work. Plans completed. Owners will sub-let all contracts.

Store (alts. and add.), 742 North Gay street, Baltimore, Md. Architect, private plans. Owner, Eli Goldenberg, on premises. Brick, steel and galvanized iron, 3 stories, plastering, painting, plumbing (electric lighting and heating reserved). Owner will take bids.

Factory, Bayard and Ridgely streets, Baltimore, Md. Engineer, P. O. Keilholtz, Continental Building, Baltimore, Md. Owners, Porcelain Enameling and Manufacturing Co., Eighth and O'Donnell streets, Baltimore, Md. Brick, concrete and steel, 1 story, 120x320 feet, slag roof; steam heating, steel sash, plumbing, painting (electric work reserved). Plans completed. Engineer ready for bids.

Garage, 3104 West North avenue, Baltimore, Md., \$15,000. Architect, Fred E. Beall, 306 St. Paul street, Baltimore, Md. Owners, Milbourn Bros., Edmondson avenue and Calverton road, Baltimore, Md. Brick, 2 stories, 50x150 feet, slag roof, steam heating, electric lighting. Plans completed. Architect ready for bids.

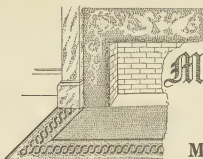
Post Office (alts.), Fayette and Calvert sts., Baltimore, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Consists of general interior alterations, partitions, marble work, steel reinforcing beams, painting, plumbing, electric lighting. Revised plans in progress. Owner will readvertise for bids.

Maryland Contracts Awarded

Store (alts.), 739 Columbia avenue, Baltimore, Md. Architect, Walter M. Gieske, Gunther Building, Baltimore, Md. Owner, Joseph H. Jacobs, on premises. Consists of new metal bulk, marble and tile work, glazing, millwork, painting. Contract awarded to Maurice Swerdlin, 1904 East Walnut street, Baltimore, Md.

Building, Westport, Md. Architect, private plans. Owners, Chesapeake Iron Works, Westport, Md. Concrete foundations, frame, 1 story, 50x310 feet, slag roof. Contract awarded to B. F. Bennett Building Co., 123 South Howard street, Baltimore, Md.

Machine Shop, Ramsay street and Callander Alley, Baltimore, Md. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owners, Bartlett, Hayward & Co., Scott and Hamburg streets, Baltimore, Md. Steel and galvanized iron, 3 stories, 133x114 feet, corrugated iron roof, steel sash. Con-



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tract awarded to Morrow Bros., Fidelity Building, Baltimore, Md.

Restaurant, 3 East North avenue, Baltimore, Md., \$10,000. Architect, private plans. Owners, Canton Restaurant Co., on premises. Stone foundations, brick, terra cotta, 3 stories, slag roof, tile and terrazzo work, composition and hardwood floors, steam heating, electric lighting, concrete work, dampproofing, hollow tile, plastering, vacuum cleaning system, plumbing. Contract awarded to R. H. Frazier & Son, 224 West Mulberry street, Baltimore, Md.

Proving Ground, Aberdeen, Md. Architect, private plans. Owner, U. S. Government, War Department, care of Col. L. H. Ruggles, Chief

Ordnance Department, Washington, D. C. Consists of piers, wharves, sewage system, water works, concrete foundations for guns, paving and grading, quarters for officers and employees, etc. Maryland Dredging and Cont. Co., Fidelity Building, Baltimore, Md., will superintend construction. Contract for buildings awarded to Morrow Bros., Fidelity Building, Baltimore, Md.

Laboratory Building, Indian Head, Md., \$4,500. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel and concrete. Contract awarded to Richardson & Burgess, Colorado Building, Washington, D. C.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, Whitty avenue and Fifty-third sts., \$6,000. John F. Holland (O and C), 309 S. Fifty-first street. Brick, 1 story, 34x108 feet, slag roof; brick, 1 story, 36x78 feet, slag roof.

Dwellings (4), Fillmore and Large streets, \$8,800. Rush Bros. (O and C), 1109 Fillmore street. Brick, 2 stories, 17x32 feet, slag roof, hot air heating.

Garage, 218 Rochelle avenue, \$550. Harry Henderson (O), on premises. Morris Swartley (C), 6835 Ridge avenue. Brick, 1 story, 12x22 feet, cement floors.

Garage, 506 Race street, \$1,400. A. Harting & Co. (O), on premises. Wayne Jet Metal Cornice Co. (C), 4547 Wayne avenue. Iron on iron, 1 story, 8x60 feet, metal doors.

Garage, Forty-sixth and Ludlow sts., \$29,000. J. G. Lucas (O), 4826 Chestnut street. J. D. Fisher (C), 5426 Thompson street. Brick, 1 story, 98x215 feet, slag roof, cement floor. Dwellings (27), Palmetto and Estrough sts. Finestone & Mitchellman (O and C), 1014 E. Tioga street. Brick, 2 stories, 16x39 feet, slag roof, hot water heating.

Garage, Pleasant and Crittenden streets, \$2,500. A. S. Tourison (O), 7014 Boyer st. A. S. Tourison, Jr. (C), 7014 Boyer street. Stone, 2 stories, 29x22 feet, slate roof, cement floors.

Dwelling, Pleasant and Crittenden streets, \$20,000. A. S. Tourison (O), 7014 Boyer st. A. S. Tourison, Jr. (C), 7014 Boyer street. Stone, 3 stories, 50x29 feet, slate roof, hot water heating.

Club Building, Dever and Robbins streets, \$1,500. Wissoming Yacht Club (O), Dever and Delaware. Anton Ahlers (C), 3425 Howell street. Frame, 1 story, 30x34 feet.

Church, 235 W. Wyoming avenue, \$1,000. Rev. B. F. M. Fahl (O and C), Gospel Temple, 237 W. Wyoming avenue. Brick, 1 story, 24 x24 feet, slag roof.

Garage, Cedar and Sixty-first streets, \$25,000. Berman Bros. (O and C), 6019 Market street. Brick, 1 story, 120x112 feet, slag roof, cement floor.

Dwellings (14), Crittenden and Price sts., \$36,800. John F. Conlin (O and C), 5340

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Germantown avenue. Brick, 2 stories, 16x40 feet, slag roof, hot water heating.

Garage (7), Green lane and Boome streets, \$1,575. F. P. Thomas (O), 192 Green lane. John J. Hurley (C), 4416 Cresson street. Brick, 1 story, 11x16 feet, slag roof.

Garage, 1731 Foulkrod street, \$456. Sam Douglass (O), on premises. John Plouker (C), Donak street. Alterations.

Garage, Ninth and Tioga street, \$3,965. R. L. Davis (O). Fred Dokenwadel (C), 1148 Rising Sun avenue. Brick, 1 story, 64x22 feet and 40x71 feet, slag roof.

Dwellings (22), Morris and Apsley streets, \$44,800. John H. McClatley (O and C), 848

Land Title Building. Brick, 2 stories, 16x38 feet, slag roof, hot water heating.

Dwelling, Wyoming avenue and Orthodox street, \$2,500. W. H. Smedley (O), Orthodox street and Asylum pike. Geo. Byers (C), 1747 Foulkrod street. Stone, 2 stories, 18x41 feet, shingle roof, hot air heating.

Dwellings (21), Willow avenue and Fifty-fifth street, \$73,700. Furguson & Collins (O and C), 5649 Montrose street. Brick, 2 stories, 15x42 feet, slag roof, hot water heating.

Garages (3), 1115 Winghooking street, \$1,500. Joshua Holmes (O and C), 4513 N. Eleventh street. Brick, 1 story, 14x16 feet, slag roof.

(C), 1224 Christian street. Brick, 2 stories, 12x13 feet, slag roof.

Factory, Hunting Park avenue and P. R.R., \$20,000. Link Belt Co. (O), Nicetown, Pa. Wm. Steel & Sons Co. (C), 30 South Fifteenth street. Alteration and new roof.

Garage, 1136-38 Vine street, \$4,765. F. L. Brehm (O), 655 North Twelfth street. F. Wintz (C), 1510 North Twenty-fourth street. Brick, 1 story, 34x72 feet, slag roof.

Shed, Beach and Fairmount avenue, \$1,600. Ajax Metal Co. (O), 46 Richmond street. M. Ward Easby Co. (C), 1420 Chestnut street. Frame, 1 story, 84x58 feet.

Dwelling and Store, 704 Dickinson street, \$460. B. Rossikoff (O), on premises. Sam Sarks (C), 807 Dickinson street. Flush bulk. Storage, 1229 Federal street. \$1,200. John Sannib (O and C), 1420 Wharton street. Brick, 1 story, 16x19 feet, bake oven.

Stable and Chicken House, Kitchen lane and Wissahickon avenue, \$2,000. Chas. F. Jenkins (O), on premises. W. John Stevens (C), Wyncote, Pa. Stone, 2 stories, 36x18 feet and 21x6 feet.

Restaurant and Dwelling, 1419 Ridge ave., \$3,300. John B. Doland (O), on premises. Same J. Rea & Son (C), 1608 Fairmount ave. New flush bulk, brick, 1 story, side addition, 26x31 feet, slag roof.

Barn and Wagon Shed, Southampton road and Worthington road, \$5,500. G. C. Framer (O), Samerton, Pa. Wm. D. Bubeck (C), Samerton, Pa. Frame, 2 stories, 38x74 feet and 18x46 feet and 22x32 feet, all one building.

Store and Dwelling, Douglass and York sts., \$1,000. C. Briskin (C), on premises. M. J. Benamy (C), 3042 W. York street. Flush bulk and alterations.

Store and Dwelling, Wayne and Seymour sts., \$3,000. Albert Smith (O), on premises. Wm. C. Wright (C), 22 Harvey street. Brick, 1 story, garage, 20x42 feet, slag roof.

Store and Dwelling, Eighth and Washington avenue, \$300. Fortunato Ruvirei (O), on premises. Cossa & Strogia (C), 922 South Twelfth street. New bulk.

Dwelling and Store, Twenty-fourth and Catharine streets, \$350. H. Blum (O), on premises. H. Braunstein (C), 325 Fitzwater street. Alterations.

Garage, Twenty-second and Ludlow streets, \$1,500. Adams Express Co. (O), Eighteenth and Market streets. Armstrong & Lafta Co. (C), Land Title Building. Fire repairs.

Dwelling, 6314 Wissahickon avenue, \$9,675. T. B. Frank (O), 6623 McCallum street. Chas. Johnson (C), 5701 Boyer street. Brick, 2 stories, 35x12 feet and 15x14 feet, one story addition, 15x10 feet, slag roof.

Store and Dwelling, 875 North Marshall st., \$1,000. R. Gollub (O), on premises. Max Kane (C), 871 North Sixth street. Brick, 1 story, 5x19 feet, and alterations.

Store, 1301 Market street, \$800. S. Wilson (O), Pennsylvania Building. Basch & Co. (C), 1420 South Front street. Flush bulk.

Shop, 1110 Brittonwood street, \$520. Haines Jones & Cadbury Co. (O), 1134 Ridge avenue. J. Morris Daniels (C), 252 South Juniper st. Brick, 1 story, 16x21 feet, slag roof.

Dwelling, 6704 Kielyne street, \$1,500. Chas. Dunker (O), 3407 Dereram street. Ed. F. Bender (C), 6014 Torresdale avenue. New roof, slate.

Dwelling, Reynolds Park, Bath and Ash streets, \$1,000. Penn Forge Co. (O), Delaware and Buckness streets. Ed. F. Bender (C), 6014 Torresdale avenue. Move building.

Store and Dwelling, 2815 Germantown ave., \$890. M. Traves (O), on premises. Barnum

Alterations and Additions

Garage, 421-25 Moore street, \$2,600. Jacob Fitman (O), 419 Moore street. A. Lashner (C), 1625 S. Orkney street. Brick, 1 story, 46x53 feet, slag roof.

Store and Dwelling, 1001-3 Bainbridge st., \$3,200. B. Politz (O), Ninth and Bainbridge streets. Frank & Keiser (C), 1522 S. Sixth street. Brick, 1 story, 8x12 feet, and alterations.

Tool House, Delaware avenue and Porter street, \$1,500. Penna. Salt Mfg. Co. (O and C), Greenwich Point. Brick, 1 story, 16x20 feet, slag roof.

Garage, Twenty-first and Commerce streets, \$10,000. Foss Hughes Motor Car Co. (O), Twenty-first and Market streets. Frank G. Stewart (C), 1619 Sansom street. Brick work and alterations.

Bank, 431 Chestnut street, \$7,700. Tradesman National Bank (O). R. C. Ballinger & Co. (C), 218 North Thirteenth street. Alterations.

Factory, Sixty-second and Johnson streets, \$1,000. John G. Gray (O), Wissahickon and Queen Lane. F. M. Bennett (C), 112 West Pomonos street. Brick, 1 story, 8x48 feet, skylight for roof.

Store and Dwelling, 317 South Sixth street, \$2,750. Harris Yoffe (O), 614 North Eighth street. Louis Kaplan (C), Merchantville, N. J. Brick, 2 stories, 12x8 feet and 3 stories, 12x34 feet.

Garage, 3737 Frankford avenue, \$15,000. Rob Gray and James Thobum (O), on premises. Barnes Bros (C), 2080 E. Willard st. Brick, 1 story, 40x84 feet and 72x120 feet, irregular shape, slag roof.

Store, 533 Market street, \$2,000. Geo. Foster White and Isabella (O), Lansdown, Pa. Lansdown Const. Co. (C), Lansdown, Pa. Alterations.

Garage, 5308 Parrish street, \$500. C. L.

Hemmerly (O and C), Oak Lane, Pa. Alterations from stable to garage.

Tenement House, 1504 North Nineteenth street, \$1,500. Wm. E. Morris (C), Lansdale, Pa. Anderson Woodworking Co. (C), 1726 Ludlow street. Alterations.

Office, Parel lane and Woodland avenue, \$1,000. Walter Taney (O), on premises. Christian Hansen (C), E. Lansdown. Brick, 1 story, 19x22 feet, slag roof.

Dwelling, 1902 W. Erie avenue, \$1,050. Miss Rose Schiff (O), on premises. B. V. Gamber (C), 1700 W. Tioga street. Brick, 2 stories, 17x12 feet, slag roof.

Dwelling and Store, 1442 North Second st., \$700. Mrs. Florence Gurk (O), on premises. Wm. Freiling (C), 2553 North Fifth street. Take out bulk, replace 1 twin window frame and doors.

Store and Dwelling, 1308-10 South street, \$1,100. Frank Compo (O), 1128 South street. John Palaia (C), 712 Fitzwater street. New flush bulk.

Stable, Broad and Lehigh avenue, \$500. Mary and Ida Thomas, Catharine Westlake (O), 1922 North Broad street. Hugh Hazlett & Son (C), 1701 North Twentieth street. Alterations.

Rooming House, 1322 Spruce street, \$990. The Penna. Co. (O), 517 Chestnut street. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

Garage, Sixtieth and Ludlow streets, \$1,100. Frank Binler (O and C), on premises. Brick, 1 story, 16x21 feet, slag roof.

Factory, Willard and Collins sts., \$500. Masland Duralather Co. (O), Allegheny and Collins street. Wm. Steel & Sons (C), 30 S. Fifteenth street. Iron on iron, 1 story, 39x99 feet, slag roof.

Store and Dwelling, 2144 South street, \$600. A. De Vito (O), on premises. A. De Marko

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.**

& Son (C), 1037 N. Tioga street. New second and third story front, roof covered with shingles.

Garage, 2032-34 North Sixteenth street, \$1,600. W. C. Muller (O), on premises. B. Landan (C), 1216 North Fourth street. Heating system.

Theatre, 3141 Frankford avenue, \$2,000. Allegheny Theatre Co. (O). Norden Elect. Co. (C), 311 W. Fortieth street, New York City. Electric sign.

Dye House, Taekawanna and Womruth sts., \$1,000. Univerral Dye Works (O), on premises. Harry Drake (C), 3139 Frankford ave. Tank support.

Store and Dwelling, Twentieth and Montrose streets, \$5,000. St. Chas. Parrish (O), Twentieth and Christian streets. Royer Atkinson (C), Builders' Exchange. Brick, 1 story, 24x18 feet and alterations.

Machine Shop, 2130 E. York street, \$1,990. Lindsay Hydrex Co. (O), on premises. Robert Beatty & Bro. (C), 2321 E. Fletcher street. Brick, 1 story, 34x39 feet, slag roof.

Factory, Fifth and Glenwood avenue, \$1,500. S. Lallen Co. (O), on premises. F. B. Davis (C), 240 North Sixteenth street. Alterations.

Garage, 418 Wood street, \$1,500. Berks Bros. (O), Lambert and Wood streets. M. Yellin (C), 712 North Franklin street. Brick, 1 story, 18x57 feet, slag roof.

HOW THE JAPANESE DRAW PLANS.

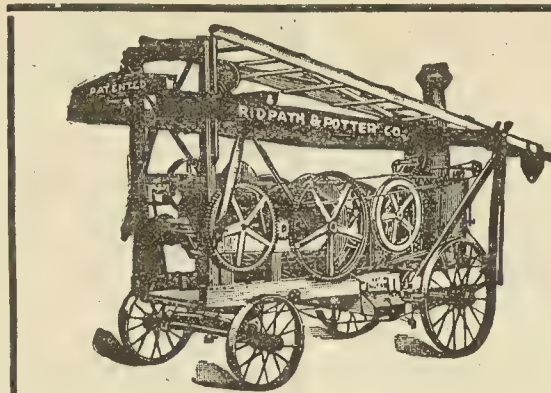
The Japanese draw their plans on one sheet of paper and then they fold it all down so that it is flat, says William A. Boring. When it is shown to the client, who has no imagination about mechanical drawing, the architect lifts up the side walls and puts the roof over the top. It is all drawn out and the client can look in the window and see the inside, or put it on the table and see what it looks like on the outside. It appeals to the imagination of people who are not educated to the building plan.

CONCRETE BRICK.

The announcement has been made of a new concrete brick just being placed on the market which is expected to have its effect on building. With this pressed, machine made concrete brick, comes, we are told, the first radical change in the making of brick since the earliest times. While the product has been refined and the process improved, the basic material has always been clay. Reduction in weight is one of the first advantages claimed, weighing approximately 4½ pounds as against the standard 6-pound clay or shale brick—a saving of 1,500 pounds per thousand of brick. When completely cured, the bricks are several shades lighter than the usual "concrete gray."

HOME MIXED ROOF PAINT.

A good roof paint may be mixed as follows: Use 3½ gallons of boiled linseed oil, the same quantity of raw linseed oil and to these 7 gallons of oil add 100 pounds of Venetian red or red lead in oil. Be sure to have no sediment and stir frequently. When using the



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paint in cold weather and it thickens add a little turpentine to thin it. Mix smaller quantities in the same proportion.

If the roof has already been painted several times no preparatory treatment is necessary except to loosen all cracked paint with a putty knife, touch up these spots with paint and when dry paint the entire surface.

WISCONSIN TO LICENSE ARCHITECTS AFTER JANUARY 1, 1918.

The recently adjourned State legislature of Wisconsin passed an architects' registration law, similar to the registration law of New York," says the "American Contractor." It becomes effective January 1, 1918, on and after which date it provides that no person shall use the title "architect" in a business way, or in any way represent himself to be an architect, unless he has a certificate of registration.

The examining board is to consist of five members, including the state architect, the dean of the engineering college of the state university and three architects appointed by the Wisconsin Industrial Commission, the body which administers the State building code. The commission has already appointed the members of the examining board as follows: Architects Alfred C. Clas, Milwaukee; A. C. Eschweiler, Milwaukee; and Henry A. Moeller, Green Bay. The ex-officio members of the examining board are F. E. Furneause, of the engineering college, Madison, and Arthur Peabody, State architect, Madison.

Architect to Formulate Rules.

"This board is authorized to formulate the rules and regulations for the examination and registration of the architects. The applicant for license must present satisfactory evidence of a knowledge of sound construction, building hygiene, architectural history and mathematics, and, in addition, he must have had five years' experience in the practice of architecture. In lieu of the examination the board may accept the diploma of graduation from an architectural school of approved standard, followed by three years of experience in practice. Provision is also made to recognize registration obtained in another state having satisfactory standards. Any architects engaged in actual practice when the law was passed may receive a certificate without examination.

"The industrial board issues the certificates to those certified by the board of examiners. This commission may revoke a certificate for cause. The registration law does not bar from the designing of buildings all persons who do not acquire a certificate. They are only barred from using the title of 'architect.'"

THE TREATMENT OF THE PERGOLA.

In our day a pergola seems to be regarded as a sign of artistic enlightenment. It is new, it is fashionable, it is even becoming obvious. Like such things, it is full of danger, the danger inherent in all similar formal affairs and in the machinery of formal gardens in particular. The chief trouble with Americans in this connection is that they have gone into formal layouts backwards, not realizing that such things are produced and made reasonable by certain ordered conditions and a long devotion to the ritual of life, and that apart from such conditions the mere apparatus can make very fools of its proud possessors. A formal garden is a test. It requires a certain amount of character to live in one, and a pergola is in a sense a spiritual thermometer which will accurately try the savoir faire of the man who builds it. No man should build a pergola more rashly than he buys a title or subscribes to the "London Spectator." All of these things are precious contributors to distinction if such already exists within; they can all take their revenge if it be lacking entirely.

However debatable the morality of a pergola, its material form is simple. The basic idea is a continuous semi-sheltered walk, useful in southern countries, like Italy, where the sun is unpleasantly hot for long periods of the year; the nature of the houses makes outdoor life of some sort inevitable. The usual terrace treatment of gardens led to long lines where sheltered passing was desirable. Architectural treatment of these lines with piers or columns supporting a slight vine-covered structure, produced the pergola. The terrace of the Cappucini at Amalfi is a well-known example. Where the structure was less emphasized a pleached walk fulfilled the requirements, as at the Villa Gori in Siena. In Italy, however, the architectural form has always been more usual, as it apparently better satisfies the Italian instinct for form and

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Tasker Street Wharf, Delaware River, Philadelphia.

regularity. This works itself out in purely utilitarian situations. The festoon-like training of Tuscan grape vines is as beautiful as *t* s practical.

American pergolas have developed somewhat away from their Italian prototypes. Besides semi-sheltered walks, the term is applied to arbors and partly roofed piazzas. Short pergolas, properly arbors, are set about formal gardens like outdoor scenery, and sometimes the vines are omitted altogether, so satisfactory do the posts and lintels seem to their designers. The exotic appearance of sawed beams has become a cult. People enjoy pergolas of this sort because, apart from picturesqueness, they have the obvious qualities of structure that our more elaborate buildings lack; this pleasure is that of a child in a house of blocks. But our arbors without shelter, and piles of beams and columns which merely look forlorn in winter snow and wind. It was not without reason that the Gothic pergola, the cloister, had a stone vault. The logic of that age met conditions of northern climate with a solid and irrefutable answer.

—"Architectural Record."

BUILDING PROSPECTS BRIGHT

Prospects for an improvement in building operations were never brighter than they are to-day, labors scarcity and high prices notwithstanding. There are, of course, two factors which practically control the building situation. First, the degree of activity in general manufacturing and trading. Second, those influences which tend especially to stimulate construction. In forming his outlook, therefore, the reader should first inquire regarding the volume of business as a whole. On this point, certainly, all indications are most favorable. Except in the actual regions of combat, war invariably results in an enormous amount of business. The present war has an unusually strong tendency in this direction, because it is essentially an industrial war, to a degree never before equalled in history.

Not one business man in ten here in the United States has yet realized the prodigious demands which will be made upon our facilities of production and distribution. The only limiting factors are workmen and materials.

Some idea of the rush of industry in coming months is given by the fact that within the space of thirty days over half a billion dollars of capital were involved in the chartering of new concerns in the United States. This surpasses even the record-breaking boom of 1916. It is simply inconceivable that this immense production now in view will not be accompanied by a proportionate degree of activity in the building trades.

This second point to consider is whether there are specific causes operating to give a particular impetus to building lines as distinguished from industrial and commercial activity in general.

In regard to residential building, there will very likely be considerable hesitation in high-grade propositions, at least while the fashion for economy is at its height. It must be remembered, however, that within the ensuing months many people will make more money than ever before in their lives and will be elevated into the class of property owners. Besides these newly wealthy patrons of building, there will be thousands of workmen raised to the position of home owners by the steadily advancing pay roll to labor.

Finally, there must necessarily be new plants and construction to handle the requirements of the half billion dollars of new industrial capital which is monthly added to the already stupendous total of business investment.

In the case of municipal, institutional or endowed projects, the outlook is far from clear at the present time. Many observers feel that this class of buildings will be permanently stagnant until the ending of war brings prices more attractive to our city fathers, trustees and boards of directors. Other observers, however, anticipate that no class of buildings can fail to feel the influence of expansion which is in the air. They point out, for example, that never before has the country been more in need of good commercial highways for relieving by motor truck transportation, the railroad systems which for the past twelve months have been literally swamped with traffic demands.

On the whole, the prospective situation in the building industry can be summarized as distinctly optimistic. Even though we disregard as problematical the impetus which may come from the requirement for government cantonments and camps, there still remains enough purely commercial factors to warrant sound confidence in the future of building during the period of the war.—"Realty."

WHO OPENS YOUR MAIL?

Who opens the mail in your office? This question applies more particularly to large manufacturers, wholesalers and retailers who get a large volume of mail which is opened by perhaps the office boy, but the idea back of the query applies to all business men that get mail.

Not long ago a manufacturer whose goods are nationally known lost an advertising opportunity worth thousands to him which was presented in a circular destroyed by the office

boy who opened the mail of the concern in question. On the other hand, the head of a Chicago publishing house, whose time is just as valuable as the manufacturer's, opens every piece of mail coming into his office. Several times he has congratulated himself that he does take the trouble every day to go through his mail.

He believes that clerks and office boys are not necessarily incompetent or careless, but that they can't attain the executive's point of view. For instance, a clerk can not know that an ordinary looking postal card noting a slight reduction in the price of a certain iron pipe might mean the saving of thousands of dollars to the manufacturer of plumbing supplies.

The way to the waste basket is easy for the circular or letter which falls into the hands of the office boy. The bump of destructiveness is usually very well developed in the young man who dusts your desk and fills your ink wells. Not only this, but his judgment is hardly to be relied upon. Give orders for the boy to bring all the morning's mail in to your desk, or to distribute it among your department heads—no matter how many bushels of mail there are. It is the only safe way, the only profitable way.—"The Glovers' Review" (Gloversville).

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I have bought, sold and written all kinds of advertising—pasted and printed, indoor and outdoor, consumer and dealer, technical and commercial—and I have reached the conclusion that there is more real gold as yet unmined in the trade press field than in any other field of advertising endeavor."—Extract from address by R. R. Shuman, before the annual convention of the Associated Advertising Clubs at Omaha.

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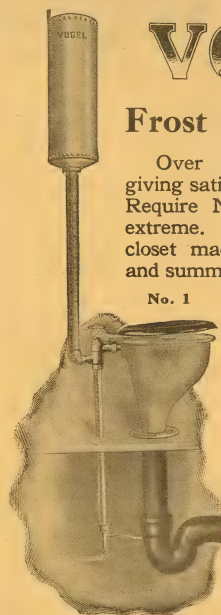
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CONTRACTORS AND THE MATERIAL AND EQUIPMENT TRADES

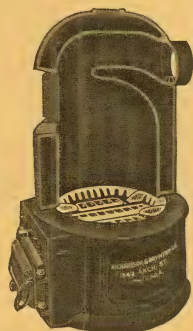
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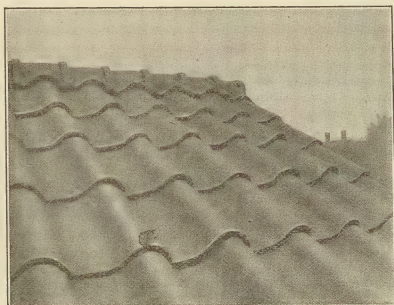
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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Number 45

PHILADELPHIA
November 7, 1917

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As The Editor Sees It



THAT the opinion of THE GUIDE, to the effect that nothing of advantage is to be gained by deferring structural projects at this time, is not exclusively an Eastern view of the logic of the building situation, is attested by the appended article on the subject from the pages of *The Architect and Engineer of California*. Under the caption, "The Building Situation," the Pacific Coast magazine remarks:

"Said a noted English lecturer the other day in regard to business in England: 'The business firms which kept everlastingly at it' gained prestige which they have profited by ever since. They soon found that their policy was more than justified; for instead of 'business as usual' it became 'business unusual.' And America will find it just the same. In weeks, rather than months, you will get a great reaction and business will enjoy greater prosperity than has ever been known in your history."

"And that's exactly the situation we're going to have in this country. Building is feeling it already.

"Still there are some people who talk about waiting to build until 'normal' times and prices are restored. If such people don't need their buildings for four or five years, well and good; but they must not fondly hope for such restoration in less time. We hear talk about things being in a more stable basis in four or five months.

UTTERLY farcical. Even if war stops to-morrow, it will take two years to disband the European armies, while meantime, and for long afterward, there will be demands upon us for machinery, materials, even food, equal to those of the present. And at the same time our stocks have been depleted and running low, so that our own wants must be met. And those wants are not modest. Money coming into the country and prosperous times here will make those wants many.

"Even when normal times are restored, it will be a new normality. Never again will building prices be where they were two or three years ago, any more than will beef ever be as cheap as it was when vast herds of cattle roamed the free pastures of the West.

"Our natural products are more rare, harder to get; our manufactured ones more costly to produce. It is a new era. Besides, with as much gold as has come into the country, a new standard of values is established. When a commodity is abundant it is cheap; when money is plentiful, it buys less; and there you are.

"No, if a man needs a building at all, there is absolutely no sense in waiting. Now is the time to build!"

AND by way of endorsing my view that the operator is missing an active demand, by adhering to his illogical policy of waiting for material costs to recede, I am pleased to quote

from the news columns of the *Philadelphia Evening Bulletin* of October 31 the following:

"Philadelphia is facing one of the most acute shortages of small dwelling houses ever experienced, conditions being attributed to an abnormal demand brought about by the war.

"Among the sections most seriously affected are West Philadelphia, downtown and the north central district. Houses are easy to buy—if one has the money—but structures renting from \$15 to \$30 a month are found to be at a premium. When a 'To Let' sign is hung out it is not allowed to remain for long. Low and moderate priced apartments are just as scarce as houses.

"Real estate men in various sections all have their pet explanations for the condition. What seems to be the most popular is that war industries have boosted wages and many families whose former incomes required them to share houses with others, have moved into independent homes.

"The influx of war workers, including many negroes from the South, who are offered good employment at local and nearby munition plants, is said to be a contributing cause. The section bounded by Spring Garden street and Girard avenue and by Ninth and Thirteenth streets, one real estate dealer declared, is becoming essentially a colored neighborhood, and houses there are hard to secure.

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IN the district between Pine and Spring Garden streets and Thirteenth street and the Schuylkill river there are many vacant houses to be rented. These houses, however, are for the most part large, bringing rentals of from \$60 to \$350 a month, and the throng of house seekers at the present time cannot afford to pay such high rents. Many of the people who formerly occupied these houses have moved to the suburbs.

"In the section between Spring Garden street and Girard avenue there are a few of these large houses vacant in neighborhoods that were once fashionable. Some of the houses of this sort have been turned into tenements, but many owners are reluctant to build fire escapes and make changes in compliance with tenement house regulations.

"It is just as hard to get at moderate rental houses downtown and even in outlying districts, such as Germantown, the diminished building activity of the past year is reported to be having an effect.

"When asked about this, the head of a large real estate firm said: 'Our statistics show that during the past year 2,000 houses were built in Philadelphia, while 10,000 were constructed during the previous year. Building material is costly, its delivery uncertain and for the past two years building contractors have refused to undertake a job on any other but a sliding scale, subject to changing prices of material, labor and deliveries.'

"Nearly every Philadelphia real estate agent has a waiting list, longer than ever before. Many of those contentedly occupying houses have been forced to move after the sale of their homes to families anxious to occupy them at once.

"The houses most in demand are the small two-story designs, renting from \$18 to \$25 per month.

"Larger houses, renting from \$35 to \$50 a month are also in limited demand."

And the operative builder still waits, hoping that by intervention of some now unforeseen miracle the condition brought about by advancing material costs, labor scarcity and higher wage rates will undergo a remedial transformation. It won't, of course, because the present is not an age of miracles. And in the meantime the operator who accepts conditions as they are and pushes ahead with his project is cleaning up.

THE opinion, widely held, that material costs would drop simultaneously with the fixing by the government of a basic price for coal and steel has failed to justify itself. Federal action in the case of steel and coal has been without effect upon other lines of material. As the result of a survey of conditions undertaken by a New York news bureau the following statement has been given publication:

"In every department save that of structural steel, the tendency is toward decidedly higher levels than now prevail, especially if there should develop any difficulty in obtaining adequate supplies of coal. In the structural steel department the Government's fixed price policy is the subject of still further negotiation at the present moment and it may apply to tubular goods, affecting pipe and plumbers' tubing. The building trade looks for \$86 steel in the building, but even this price is far above normal levels ruling in ante-war days. The difference between \$140 a ton steel to-day and possible \$86 a ton steel next spring or summer, as applied to the builder and his investment, according to the Beals report, is that between a prohibited building operation and one of which the margin is little or nothing unless there is some protection by legislation, insurance or subsidy to insure the stability of values until the investor has had time to turn around.

ONE cause of the higher prices that now seem assured in the next five to ten years is the claim that devastated Europe will make upon American building material resources. Among the results of the survey conducted by the subcommittee on the supply and demand for building materials, of which C. J. Curtin is chairman, is a comment from Otto M. Eidlitz, of Marc Eidlitz & Son, builders, who is a member of the National Defense Society's committee investigating the demand for workmen's homes in this country of which there is a very appreciable shortage, in which Mr. Eidlitz says:

"There is no doubt that we will undergo an era of readjustment. The present situation has not so seriously affected many classes of workers, who, due to war conditions, are getting higher wages than they ever did, but even with the demands that devastated Europe will make upon us for rehabilitating her in different ways, the present situation is caused chiefly because enormous quantities of so many kinds of material are needed for carrying on the war and consequently interfering with the normal demand for civic purposes. When you see gilt-edged securities virtually unsalable, where the revenue derived from them is far in excess of anything that could be derived from investments in building operations, we cannot wonder that building, except for war purposes for some special purposes, should virtually disappear."

"Investing builders are guided to-day by two conditions. If they proceed with contemplated building operations it is because they are assured of an immediate sale, or complete rental, as in the case of special buildings. Projected buildings have been deferred because the investors

felt sure that building material prices would go down as soon as steel declined. In only one department is there any indication of that being the case within the next five years or more. Their hope, therefore, is that some means may be found to so stabilize really values that it they do proceed with construction at the present high prices, their investment will have reasonable protection against any lowering of construction costs."

INDIAN ENGINEERING, Calcutta, advances the novel thought that participation by architects, from various parts of the world, in the war in Europe must inevitably exert a certain influence for the "cosmopolitanizing" of architectural style. Says the publication quoted:

"Let us look a little at what the war is compelling builders and architects to do. Has it not always been an axiom of the artistic world that to develop the art instinct the artist must travel? He must see the work of other countries, must compare it with what he finds in his own; he must bring back with him sketches of what he finds beautiful and appropriate, and in designing for his own country substitute or combine as his judgment dictates. In the years when architecture was a living art this was an essential part of the architect's education, and the best architects were invariably those that had enriched their knowledge with a liberal study of the art of foreign countries. With the great increase in numbers in the profession the proportion of those that have studied outside their own country has fallen greatly; they are content with the study of sketches and photographs now so freely circulated; the time and expense of foreign study are saved; the result is a cramping of the art. But what the profession had ceased to do for itself the war is doing for the profession. It has caught up the profession bodily and carried it out to fight in France, in Belgium, in Italy, in Greece, in the Balkans, in Turkey in Egypt, in Mesopotamia, even in India.

"Architects in great numbers have now observed some of the works of these countries and cannot have seen them without learning something from them. They have lived among these works, have experienced the climate and seen the atmosphere in which they exist, and so have learned at first hand the why and wherefore of their specialties. Such men must naturally return home with a greatly widened view of their profession; their education in the fitness and appropriateness of features in design must be very much extended; they are not likely to slip into incongruity; nor will they be blind to opportunities of introducing forms and features in their work that have impressed themselves on the mind

abroad but could not be so much as seen at home. It is they who must be looked to break down the barriers that have circumscribed the art of home, just as we look to seasoned soldiers to storm the trenches.

"Why do we not get beyond the eternal round of Renaissance in our public buildings, of a bastard Gothic in our ecclesiastical architecture, and of a modified medieval style in our domestic building? It is because we are hide-bound by convention and lack the courage to break through. Courage comes from conviction; those who have seen, have experienced, and been convinced of new possibilities in architecture may now take the lead, and as there has sprung up a strong feeling that the after-war world must be more cosmopolitan, so, let us hope, that same world will see some more cosmopolitanism in architecture. For, after all the truest definition of architecture is that it is an expression in form of a people's feeling."

* * *

BY way of combatting the indifferent, if not hostile attitude of the national government toward the architectural profession, the suggestion is made that the architect get into politics.

The following is a synopsis of an address on the subject delivered by President W. G. Malcomson, of the Michigan Society of Architects, at the annual meeting of the Illinois Society:

"A large measure of interest has been manifested, and considerable feeling has been justly aroused on the part of some intelligent and progressive members of our profession, in regard to the continued unfavorable attitude of our National Government toward the architectural profession—and the lack of proper governmental provision for suitably locating and wisely planning important national structures to insure the best permanent results, all things considered. Time need not be taken on such an occasion as this to state in detail the situation as it actually exists. You are all familiar with it. It may be assumed here that a statement to the effect that the present condition is deplorable would not meet with a single objection nor an attempt at contradiction in this assembly. Notwithstanding the fact that much effort and expense have been devoted to making known the unfortunate conditions, and also in evident well intentioned improvement of them, it must be conceded that not much concrete advance has been made toward a satisfactory remedy for some time past.

"The *Institute Journal* and other publications referred to therein have done yeoman service in the respective fields of illustrative and other enlightenment,

pointed critical comment and recommendatory advice, all of which cannot be too highly appreciated by the architectural profession. Thus far, however, to the interested onlooker, no substantial progress has been made toward a much desired improvement. The fact that so much thought, labor and expense has been productive of so little apparent result is suggestive. May it not be that the methods thus far practicable have conducted as much to provoke a degree of concerted opposition as to produce enlightenment, and that the well intentioned efforts to favorably educate the national statesman en masse has resulted in a measure of solidified antagonism (which condition if true, would not be entirely unassisted by a combination of selfish local capital interests)?

"May it not be possible that Washington might not be the best place, or at least that the legislative period not the best time, for effective ethical propaganda? Let me not be understood as in any sense criticizing the volume of valuable, painstaking work which has been accomplished, and which no doubt continues to be done; but, as related to, and based upon such necessary and fundamental accomplishment, it may not be out of place to offer a few suggestions of a practical

and constructive nature, by the adoption of which, through organizations such as this, Illinois and other State Societies, the valuable material data already prepared and the recorded work now made available by the devotion, industry and foresight of some, may be intelligently used toward accomplishment of the ends so much desired by all."

* * *

THERE is no doubt that a considerable wing of Congress and at least one or two department heads at Washington are inclined to minimize and belittle the importance of placing the design of federal structures in the hands of architects of the highest competency. Whether this attitude is due to plain ignorance or to the foolish but tenacious idea that the American Institute is "a trust" it is not easy to say. To whatever cause it may be attributable there is reason to believe that it may be made to yield to treatment. The question is what form this treatment should take. If getting the architect into politics is going to help, by all means let us get the architect into politics. Politics can't hurt the architect materially; it is not beyond the bounds of the possible that the architect may, on the other hand, help politics.

EDITORIAL NOTES

J. S. Cornell & Son, contractors and builders, have moved their offices to 1412 Morris Building, Philadelphia.

* * *

C. H. Zanzinger, of Zanzinger, Borie & Medary, Otis Building, Philadelphia, has been appointed by the State Department, Washington, D. C., to serve in the Diplomatic Corps. Mr. Zanzinger has sailed for Sweden, where he will take up his duties at once.

* * *

"During this time of abnormal conditions in nearly all industries it is necessary that we be guided by sound fundamentals in forming our conclusions as to the outlook for any particular branch of industry," says the "American Contractor." "In the building business as well as any other the law of supply and demand must ultimately control. This law cannot be set aside. Although war results in the upsetting of normal conditions, the law of supply and demand is still the governing power. The nature of the demand may change as it has changed since our entrance into the war, and naturally the supply will tend to follow the demand. The thing pertinent to remember is that a permanent depression in a given line of trade occurs when the demand is less than the supply—not when the demand is greater than the supply, as at present."

Local Chapters of the American Association of Engineers have been established in St. Paul, Indianapolis and Milwaukee. This makes a total of seven chapters which have been organized since the formation of the association, two years ago. The total enrollment of the association is now over 2,200 members.

* * *

Among the first to get orders to report at the officers' training camp at Fort Niagara was Walter A. Smith, son of Treasurer Smith, of the Philadelphia Master Builders' Exchange. He was also the youngest of those who received commissions. Young Smith was sent to the instruction camp at Anniston, Ala. He is a graduate of Notre Dame University.

* * *

American Radiator Company, it is reported, has been negotiating with the Government with a view of turning over its plant at Bayonne, N. J., for the manufacture of guns. It is stated that this plant is at present engaged in filling Government orders for naval guns. These orders, it is added, approximate \$3,000,000, and will take from six to eight months to complete.

* * *

The nature of the building demand has changed, but the supply of buildings is far short of the number required to meet this

changed demand. While high-class residential building is considerably curtailed, on the other hand factory buildings are needed in excess of the supply, and activity in this class of building is on the increase despite high prices, labor scarcity, transportation difficulties and every other deterrent factor. A study of the figures for industrial building projected during September in 1916 shows that this class of buildings has increased in nearly every section.

* * *

Hudson Boiler Manufacturing Co., New York, has received an order from the War Department for a large number of hot water heaters for use in the army cantonments.

* * *

Industrial building projected in New England was \$4,296,000 for September, as compared with \$3,899,000 for September, 1916; for New York State, \$5,110,000, as compared with \$2,580,000 in 1916; for northern New Jersey, \$1,670,000, as compared with \$887,000 in 1916; for Philadelphia, \$894,000, as compared with \$856,000; for the Central West, \$3,820,000, as compared with \$2,815,000 in 1916; for Cook County, \$4,160,000, as compared with \$1,655,000 in 1916. These statistics include only the construction of mills, factories and other purely industrial buildings. Government work is not included. While these are very significant of the trend of building under war conditions, we have as added testimony the reports of men engaged directly in the building business. In nearly every important center these reports mention the demand for factory space, which continues to outgrow the supply of new buildings.

* * *

Kewanee Boiler Co., Kewanee, Ill., it is stated, has received orders from the Government for heaters, boilers, tanks and garbage burners, approximating in value \$912,000, with the prospect of more orders to come. These supplies will be used in the army cantonments, officers' training stations, aviation camps, etc.

* * *

Even the fire losses for the first eight months of 1917 in the United States and Canada tell a story of the war, since the total of \$180,500,000, as compared with \$111,500,000 in 1916, represents the losses in oil and munitions works, here and in Canada, not necessarily of an accidental character. At the same time the figures are appalling and the amount in round figures represents a property waste beyond all reason. It is almost criminal for August, 1917, to show losses of \$21,750,000, as compared with \$10,780,000 for the same month in 1916, since, as all know, even allowing for war plots, most of these losses are due to preventable causes.

* * *

Ilg Electric Ventilating Co., Chicago, Ill., has organized its office and factory employees into a military company. Drills are held every day at noon in front of the company's plant at 154 Whiting street. A uniform style of working clothes has been adopted consisting of a khaki-colored oversuit.

Coatesville is to lose one of its experts through the resignation of Allen Hoffer, superintendent of blast furnaces for the Worth Brothers Company. The resignation is effective November 15, when Mr. Hoffer will become superintendent of four blast furnaces for the Cliffs Iron Company, of Cleveland, and will also be associated with the sales department of that company. Mr. Hoffer became superintendent of the Worth blast furnaces about three years ago, when there were two furnaces. A third furnace has recently been built. Mr. Hoffer is a native of Pottstown and was with the Eastern Steel Company in that town for eight years.

* * *

The McClintic-Marshall Construction Company is working four shifts day and night filling orders for 30,000 tons of structural steel, mostly for work at the United States navy yards, including material for the electrical and machine shops at League Island, an electrical shop at Brooklyn and a machine shop at Newport. All these orders will be filled by March.

* * *

Much dissatisfaction on the part of manufacturers all over the country, vigorous criticism from many intelligent sources and the possibility of official expression in Congress against the prevailing purchasing system in the War Department are developing as the result of a recent order by Secretary Baker concealing all information concerning the military supply needs of the army and the awarding of contracts for the filling of these needs. Under the Secretary's order it is impossible for the public or any portion thereof, including bidders on Government proposals, to learn where the hundreds of millions of dollars which the various branches of the War Department are spending is being spent. It is impossible to discover what firms have received army contracts and it is equally impossible to ascertain what contract prices happen to be.

* * *

Real estate men are interested in the fight over an uncharted island in the Delaware River off Hog Island, which may interfere with the issuing of permits to the American International Shipbuilding Corporation for the construction of shipbuilding ways on Hog Island. The shipbuilding company has an insured title for all the property, but the Arcadia & Clifton Heights Railroad, which is contesting the granting of the permits to the shipbuilding company, claims the uncharted island, and declares that it has filed, by a prior application with the Commissioners of Navigation, a permit to construct four piers on the contested ground. The railroad claims that it has a deed for the right of way in the uncharted island, which Frank M. Zeller, president of the road, claims to have discovered in 1905 and which he named New Providence Island. In 1909, he claims, he applied for a patent for the new island, and which he says was found vacant by the land department. The case is such an unusual one that

real estate men are awaiting the decision next Wednesday with great interest.

* * *

The twenty-sixth annual edition of Hendricks' Commercial Register of the United States for Buyers and Sellers, has just been issued. This standard publication is especially devoted to the interests of the architectural, contracting, electrical, engineering, hardware, iron, mechanical, mill, mining, quarrying, railroad, steel and kindred industries. Full lists are included of producers, manufacturers, dealers and consumers, listing all products, from the raw material to the finished article, together with the concerns handling these products, from the producer to the consumer. There are 2,209 pages of text matter and the index to trade classifications numbers 151 pages, covering over 50,000 trade references. The list of trade names, brands, titles of identification, etc., numbering 1,212 pages, furnishes ready reference to distinctive products manufactured by concerns listed in the work. The alphabetical section is included for the first time and contains in one alphabetical list the name, trade description and address of every concern appearing in the book. S. E. Hendricks Company, Inc., 2 West Thirteenth street, New York.

* * *

Marmaduke Tilden and J. Bartol Register, architects, with offices in the Presser Building, Philadelphia, have received commissions as First Lieutenants in the Signal Corps, Construction Division of the United States Army, and will leave for France in a few days. Their offices will be closed and all unfinished business looked after by Messrs. Bissell & Sinkler, Otis Building.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

STUDY THE ADVERTISING PAGES.

The average reader does not pay very close attention to the advertising pages unless he happens to be particularly interested in some product or is in the market for equipment or material. He is missing a part of scientific literature which offers suggestions as practical as the reading pages. He is also losing an opportunity of studying a subject which bears the most important relationship to every business on earth. No matter what line of work you may be engaged in, a knowledge of publicity and salesmanship is valuable. Every form of occupation to be made successful depends upon a degree of salesmanship. Study the advertising pages. They represent an expenditure of time, thought and money, which makes them well worthy of your attention.—"Municipal Engineering."

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (57), 45 both sides of Newkirk street, between Allegheny and Hunting Park avenues, and 12 on Allegheny avenue, between Newkirk and Dover streets. Architect, private plans. Owner, Morris L. Miller, 1202 Commonwealth Building, Philadelphia. Stone foundations, brick, 2 stories, size of lots, 15x60 feet, slag roof, hot water heating, electric lighting, hardwood floors, plumbing, tile and marble work. Owner is taking sub-bids on all lines.

Elevated Stations (4), Torresdale and Kensington avenue and Tioga street and Kensington avenue, Philadelphia. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick, reinforced concrete, stone and terra cotta, 2 stories, tile and slag roof, cement floors, hollow tile, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal sash and doors, fire doors, iron stairs, safety treads, roof ventilators, metal ceilings, wire work, ornamental iron work (electric work and plumbing separate bids). Plans in progress. Owners will be ready for bids in about one month.

Building (fire repairs), 514 North American street, Philadelphia. Architect, private plans. Owners, City of Philadelphia, City Hall, Philadelphia. Consists of interior alterations, mill work, plastering, painting. Lowest bidder, J. H. Jordan, Thirty-first and Oxford streets, Philadelphia.

Elevated Stations, Contracts Nos. 533 and 534, Frankford Elevated. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick and concrete, 2 stories, five ply slag roofs, cement granolithic floors, mill work, roof ventilators, metal ceilings, tile and marble work, rolled steel and hollow metal sash, ornamental iron work (electric work and plumbing separate bids). Low bidders: Standard Const. Co., \$33, \$44,700; \$34, \$46,400; Mitchell Bros., \$33, \$48,879; \$34, \$49,779.

Platforms (4), Contract No. 525, Frankford Elevated. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Steel and concrete, steel, frame and slag roofs, 400 feet long. Low bidders: Keystone State Const. Co., \$167,000; Wm. R. Dougherty, \$182,000.

Store and Apartments (alt. and add.), 317 South Sixth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, H. Jaffe, care of architect. Stone foundations, brick, 3 stories, 30x14 feet, slag roof, yellow pine floors, electric lighting, plumbing, tile and marble work, flush bulks, metal ceilings (heating reserved). Plans

in progress. Architect will be ready for bids in about ten days.

Service Building, northeast corner of Twentieth and Erie avenue, Philadelphia. Engineers, Watson & Co., Cleveland, Ohio. Owners, White Motor Car Co., J. D. Howley, Philadelphia manager, 216 North Broad street, Philadelphia. Reinforced concrete and stone, 1 story and mezzanine floor, 253x243 feet, slag roof, cement and pine floors, metal lath, hollow metal skylights (heating and lighting reserved). Owners are sub-letting all contracts.

Marine Barracks, Navy Yard, League Island, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Yard, Washington, D. C. Reinforced concrete, brick and stone, 3 and 3½ stories, 280x54 feet, 3 wings, 48x30 feet, slate roof, asphalt and composition floors, steam heating, electric lighting, waterproofing, iron stairs, ornamental iron work, fire doors. Owners have received bids.

Shop (add.), Twenty-third and Ontario sts., Philadelphia. Architect, private plans. Owners, Tioga Machine Co., Twenty-third and Ontario streets, Philadelphia. Brick, second story addition, 106x100x144 feet, slag roof, hot water heating, rolled steel sash (heating, lighting and plumbing reserved). Owners have received bids.

Store Building, 151 North Fifteenth street, Philadelphia. Architect, private plans. Owner, Charles Mangold, on premises. Will consist of general repairs to present building, tin roof (heating reserved). Owner will sub-let.

Museum, Twenty-fifth and Spring Garden streets, Parkway, Philadelphia, \$2,000,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, City of Philadelphia, Department of Public Works, City Hall. Stone. Details undecided. Preliminary plans in progress.

Auto Body Manufactory (add.), Thirty-seventh and Filbert streets, Philadelphia. Architect, W. W. Sharpley, 1713 Sansom street, Philadelphia. Owners, Dunbar Auto Body Co., Inc., Thirty-seventh and Filbert streets, Philadelphia. Elevator shaft, brick, 4 stories, 9x20 feet, slag roof, rolled steel sash, fire doors, elevators. Plans about completed. Architect will be ready for bids in a few days.

Incinerator, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Owners taking bids, due November 12th.

Garage, 2818-20 Belgrade street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, W. T. Gould, on premises. Brick and stone, 2 stories, 32x72 feet, slag roof, steam heating, electric lighting, cement and plank floors (slow burning construction), gasoline storage system. Plans completed. Owner ready for bids.

Theatre, southwest corner of Nineteenth and Market streets, Philadelphia. Architects, The Hoffman Co., Finance Building, Philadelphia. Owners, Stanley Realty Co., Juniper and Market streets, Philadelphia. Brick, stone, steel and terra cotta, 1 story and balcony, 176x143 feet, slag roof, electric lighting, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal sash, metal lath, waterproofing, ornamental iron work. Architects taking bids, due November 14th. Cramp & Co., Denckla Building, are figuring.

Store (alt. and add.), 3222 North Front st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, John M. Kennedy, Jr., 1001 Chestnut street, Philadelphia. Brick, 2 stories, 14x45 feet, slag roof, yellow pine floors, hot water heating, plumbing, electric lighting, tile and marble work, flush bulks, metal ceilings. Owners are sub-letting.

Store (alt. and add.), 912-14 Ridge avenue, Philadelphia. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owners, Escourts Hotel Supply Co., 910 Ridge avenue, Philadelphia. Brick work, new marble front, 1 story, slag roof, cement floors, marble work, skylights. Builder, A. H. Spendar, 822 Wood street, is taking sub-bids.

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

PLACE AND VALUE OF THE TRADE PAPER.

"Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

HEATING

BOWERS BROS. & CO.

1629 Ludlow Street
Philadelphia, Pa.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Foundry (add.), Third and Allegheny avenue, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owners, Bernstein Manufacturing Co., on premises. Stone foundations, brick, 2 stories, 47x90 feet, slag roof (snow burning construction), steam heating and electric lighting extensions. Contract awarded to Daniel J. McNamee, 1621 North Fifteenth street, Philadelphia.

Mill Building, Main street, below Walnut Lane, Manayunk, Philadelphia. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, John P. Holt, on premises. Brick, 2 stories, 80x100 feet, stone foundations, slag roof, electric lighting, yellow pine floors. Contract awarded to Freund Const. Co., Bulletin Building, Philadelphia.

Garage and Storage, 3605 Snedley street, Philadelphia, \$5,500. Architect, private plans. Owner, Wm. J. Dooley, 3717 North Sixteenth street, Philadelphia. Brick, 2 stories, 30x41 feet, slag roof, pine and cement floors (gasoline storage system reserved). Contract awarded to Morris Yellin, 712 North Franklin street, Philadelphia.

Store and Dwelling (alt. and add.), 6117 Woodland avenue, \$2,800. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, B. Kline, on premises. Stone foundations, brick, 2 stories addition, 16x30 feet, slag roof, hot water heating, electric lighting, marble work, hollow metal skylights, metal ceilings. Contract awarded to Bierns & Cylinder, 521 Mifflin street, Philadelphia.

Store Building (alts.), 1006 Chestnut street, Philadelphia, \$2,000. Architect, private plans. Owner, G. A. Schwarz, on premises. Consists of general interior alterations, new partitions, flooring, changing stairways, etc. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Bank Building, northeast corner of Fifth and Tabor Road, Olney, Philadelphia, \$51,000. Architects, John H. Bothwell, 219 West Tabor Road, and John T. Brugger, 5610 North Mascher street, Philadelphia. Owners, Olney Bank, on premises. Stone foundations, limestone, 1 story and basement, mezzanine floor, 39x81 feet, reinforced concrete, slag roof (electric lighting and fixtures, plumbing, vapor heating, hardware and bank fixtures reserved), hollow tile, metal lath, marble treads, iron stairs, ornamental iron work, marble and terrazzo work, roof ventilators, metal window guards, area gratings. Contract awarded to Chas. Yundt, 301 West Tabor Road, Olney, Philadelphia.

Garage (44 stalls), Fifty-seventh and Beaumont avenue, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Wm. P. Wallace, 1327 South Fifty-seventh street, Philadelphia. Stone foundations, brick and reinforced concrete, 2 stories, 87x107 feet, slag roof, vapor vacuum heating, electric lighting, ornamental iron work, wire work. Contract awarded to Davis & Clayton, 1841 Ginnodo street.

Store Building, 1235 Vine street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Frederick Alexander, care of architect. Brick and concrete, 1 story, 50x52 feet, slag roof, cement floor, steam heating, electric lighting, sky lights, metal ceilings. Contract awarded to D. Henwood, 1509 Wood street, Philadelphia.

Manufacturing Building (alts.), 846 North Eighth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Sol Hopkins, 1330 Arch street, Philadelphia. Brick, 3 stories, 50x100 feet, slag roof, fire tower, elevators. Contract awarded to P. Savar, 718 Snyder avenue, Philadelphia.

Factory, 1510 Washington avenue, Philadelphia, \$2,000. Architect, private plans. Owners, Wm. C. Chapman & Son, 1510 Washington avenue. Brick, 2 stories, 47x19 feet, slag roof, pine floors, electric lighting. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Motion Picture Theatre, Queen Lane and Schuyler street. Architect, Henry L. Reinhold, Jr., 1309 Walnut street, Philadelphia. Owners, Queen Lane Theatre Co., care of architect. Brick, 1 story and balcony, 28x140 feet, slag roof, tile, asbestos and composition floors, steam heating, electric lighting, tile, marble and terrazzo work. Contract awarded to Alex. Chambley, Twenty-first and Summer streets, Philadelphia.

Office Building, Frankford Arsenal, Philadelphia, \$35,000. Architect, private plans. Owners, U. S. Govt., care of Col. Geo. Montgomery, Frankford Arsenal. Frame, 2 stories, 75x40 feet, ready roofing, vacuum heating, roof ventilators, waterproofing. Contract awarded to Wm. R. Dougherty, 1610 Sansom street.

Office, Stable and Shed, Tulip and Almond streets, Philadelphia. Architect, Maurice Golden, Crozer Building, Chester, Pa. Owner, Joseph Hymen, 2850 Tulip street, Philadelphia. Brick and metal, 1 story, 16x26 feet, 16x30 feet and 57x24 feet, slag roof, pine and cement floors, electric lighting, metal lath. Contract awarded to Davis & Clayton, 1841 Ginnodo street, Philadelphia.

Storage Building (add.), Third and Venango sts., \$9,000. Architect, private plans. Owners, Allen Iron & Steel Co., on premises. Brick, 1 story, 84x35 feet, slag roof, pine floors. Contract awarded to Stewart Bros., 2526 N. Orkney street.

Store Building (alt. and add.), Moyamensing avenue and Clarion street, Philadelphia, \$1,700. Architects, Louis Magaziner & Victor Eberhard, 603 Chestnut street. Owner, Wm. Baeharach, on premises. Brick, general interior and exterior alterations, slag roof, brick work, millwork, partitions, electric wiring, plastering and plumbing. Contract awarded to H. D. Prettyman, 2603 South Broad street, Philadelphia.

Shops (3), Richmond and Norris streets, Philadelphia, \$34,900. Architect, private plans. Owners, Wm. Cramp & Sons Shipbuilding Co., on premises. Iron, 1 story, 80x100 feet, 20x30

feet, 120x120 feet, slag roof, electric lighting. Contract awarded to Hoffman Eng. and Cont. Co., Pennsylvania Building.

Residence and Garage (add.), Lehman Lane, \$2,000. Architect, Mantle Fielding, 518 Walnut street, Philadelphia. Owner, Reed Cary, No. 1 Lehman Lane, Philadelphia. Stone, 3 stories, 17x10 feet, tin roof, pine and cement floors, metal lath, lighting and heating reserved. Contract awarded to Wm. J. Grahler & Co., 210 East High street.

Delaware

Construction News

Residences (2) Gilpin and Bayard avenues, Wilmington, Del., \$15,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, name withheld. Brick, 3 stories, 25x50 feet, slate roof, hot water heating, combination lighting, tile work, hardwood floors, metal lath, metal weatherstrips. Plans in progress.

Garage, Tenth and French streets, Wilmington, Del. Architect, W. E. Hance, 204 West Twenty-fourth street, Wilmington, Del. Owner, Dr. S. G. Elbert, 18th and French sts., Wilmington, Del. Brick, 3 stories, 100x115 feet, concrete roof and floors, electric lighting, rolled steel sash and skylights, fire doors, metal lath, elevators, gasoline storage system. Plans in progress.

Comfort Station, Fourth and Church streets, Wilmington, Del. Engineers, County Eng. of New Castle Co., City Hall, Wilmington, Del. Owners, Levy Court Commissioners of New Castle Co., Wilmington, Del. Brick, 1 story, 33x13 feet, slate roof, concrete floors, electric lighting, marble work. Owners taking bids. H. D. Haddock & Co., A. S. Reed & Bro., and J. E. Healy & Son, all of Wilmington, Del. are figuring.

Garage, Eleventh and Madison streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John L. Malone, 1025 Madison street, Wilmington, Del. Brick, 1 story, 25x50 feet, slag roof, steam heating, electric lighting, cement floors. Architect taking bids, due as soon as possible. A. S. Reed & Bro., G. J. Dougherty, and Joyce & Kerrigan, all of Wilmington, Del. are figuring.

Store Building, Wilmington, Del., \$5,000. Architect, private plans. Owners, Gibbons & Moore, Ninth and Orange streets, Wilmington, Del. Brick, 3 stories, 36x36 feet, slag roof, pine floors, electric lighting. Contract awarded to Chas. H. Tindall & Son, 614 Tatnall st., Wilmington, Del.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. —R. R. Shuman, in "Standard Advertising."

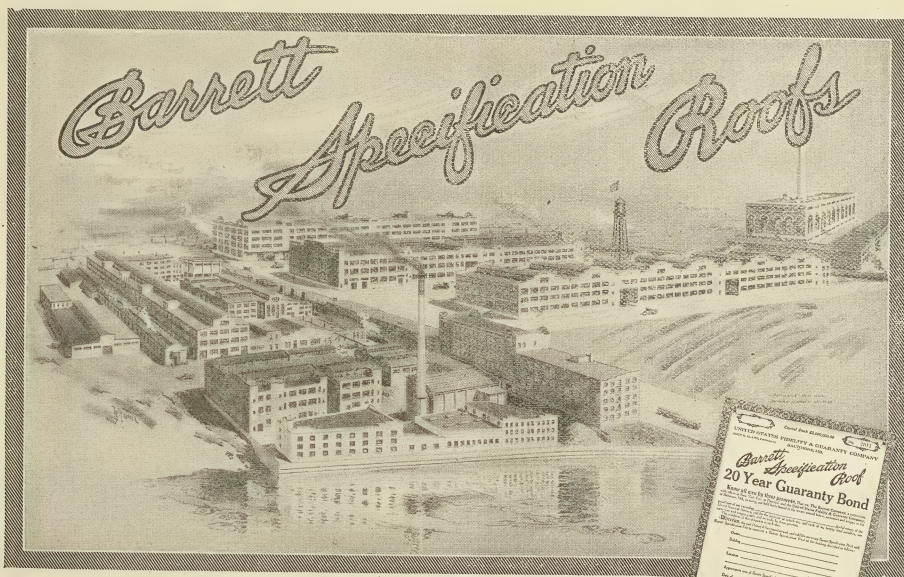
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GASOLINE, BRINE,
ETC., ETC.

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PHILADELPHIA METER CO., 942 Real Estate Trust Building.

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IN PHILA. THAN
ANY OTHER
MAKE

BOTH PHONES



Jameson Roofing Company, Roofing Contractors

America's Largest Dye Plant Is Covered with Barrett Specification Roofs—

THE National Aniline & Chemical Company, Inc., is the biggest concern in the new American dye industry.

It has plants in various parts of the country and today is turning out dyes equal in every way to those formerly produced in Germany.

Its most important plant is the Schoellkopf Works located at Buffalo, N. Y., illustrated here-with.

This plant was designed and constructed by The John W. Cowper Company, one of the largest firms of engineers in this country, and it represents the very best in building construction.

Quite naturally Barrett Specification Roofs were chosen to cover the various buildings in preference to any other type because the experience of many years has

demonstrated that these roofs have a longer life than any other and cost less per year of service. The reasons for their long life are:

First,

because they are constructed of Barrett Specification Pitch and Felt, the greatest waterproofing materials known.

Second,

because a greater amount of waterproofing is used in Barrett Specification Roofs than in any other kind of roof-covering, and the amount of waterproofing material in the roof largely determines its life.

Third,

because under the 20-Year Guaranty Plan the roofs must be constructed under the supervision of our inspectors, and we know, therefore, that they will be constructed right.

In view of all this, do you wonder that Barrett Specification Roofs are more popular than any other type for use on permanent buildings of all kinds?

The 20-Year Guaranty Bond

We are now prepared to give a 20-Year Surety Bond on all Barrett Specification Roofs of fifty squares and over, in all towns in the United States and Canada with a population of 25,000 and over, and in smaller places where our *Inspect on Service* is available.

Our only requirements are that The Barrett Specification dated May 1, 1916, shall be strictly followed and that the roofing contractor shall be approved by us.

Copies of the Barrett 20-Year Specification, with roofing diagrams, mailed free on request.

This is the Bond that guarantees your roof for 20 years.

The **Barrett** Company

New York Chicago Philadelphia Boston St. Louis Cleveland Cincinnati Pittsburgh
Detroit Birmingham Kansas City Minneapolis Nashville Salt Lake City Seattle Peoria
MONTREAL Toronto Winnipeg Vancouver St. John, N. B. Halifax, N. S. Sydney, N. S.



This is an actual photograph of a cross section of the Barrett Specification Roof on the above plant. Note the five alternating layers Specification Pitch and Felt waterproofing, and the heavy wearing-surface.

A. B. SEE ELECTRIC ELEVATOR CO.

507-8 Colonial Trust Building, Philadelphia

**ELECTRIC ELEVATORS OF HIGHEST
EFFICIENCY FOR EVERY SERVICE.**

LET US SHOW YOU.

Both Phones

CONVENIENCES IN POPULAR DEMAND

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If you can point to a Baseboard Gas Outlet in each room to which Gas Heating Stoves can be readily connected your Prospect is then assured of a quick, clean and economical method of getting the desired auxiliary heat.

'Phone or write to the Builders' and Operators' Division.

134-42 North 13th Street

Bell, Locust 1300—PHONES—Keystone, Race 30

The United Gas Improvement Co.

BUILDERS

Before your present company has a chance to say "No," ask me about placing your surety bonds. I'll give you the best of service, relieve you of all details, insure your getting lowest rates and protect you in every way. Get REAL SERVICE.

HARRIS J. LATTA

Pennsylvania Building

ARTESIAN WELLS DRILLED



**Test Borings
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JOHN B. RULON
1355 Colwyn Street
Philadelphia, Pa.

Staman & Dickey Co.

Lighting Fixtures

30 South Sixteenth Street
Philadelphia

PENNSYLVANIA Construction News

Garage, Scranton, Pa. Architect, J. J. Hawley, Scranton, Pa. Owner, name withheld. Brick, 2 stories, 40x60 feet, slag roof, steam heating, electric lighting, composition floors. Plans in progress.

Time Office and First Aid Building, White Haven, Pa. Architect, Geo. F. Schroeder, Wilkes Barre, Pa. Owners, Wilmot Engr. Co., White Haven, Pa. Brick and stucco, 1 story, 20x20 feet, asbestos shingle roof, cement floors, steam heating, electric lighting, metal lath. Plans in progress. Architect ready for bids.

Family Houses (8), Kingston, Pa. Architect, Frank Sahn, Wilkes Barre, Pa. Owner, name withheld. Hollow tile and stucco, 3 stories, 38x64 feet, tile and slag roof, steam heating, combination lighting, hardwood floors, hollow tile. Plans in progress.

Club House (alt. and add.), Barnum, West Virginia. Architect, Geo. Welsh, Coal Exchange Building, Wilkes Barre, Pa. Owner, name withheld. Frame, 2 stories, 30x60 feet, composition roof, pine floors, hot air and steam heating. Plans in progress.

Comfort Station, Providence Square, Scranton, Pa. Architect, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Dept. of Public Works, City of Scranton, Pa. Brick, 1 story, 70x30 feet, Barrett roof (indirect heating and electric lighting reserved), tile and marble work, cement floors. Plans about completed. Owners will take bids in one week.

Factory Building (add.), Kingston, Pa. Architects, Sturdevant & Poggi, Coal Exchange Building, Wilkes Barre. Owners, Adder Machine Co., Kingston, Pa. Brick, 1 story, 45x52 feet, slag roof, concrete floors, steam heating, electric lighting. Architect has received bids.

Bungalow, Wyomissing, Pa. Architect, L. D. Lance, Wyomissing, Pa. Owners, Mrs. James Boffman, Reading, Pa. Brick and stucco, 2 stories, 32x50 feet, shingle roof (hot water or hot air heating reserved), combination lighting, pine floors. Plans about completed. Owner will take bids in a few days.

Machine Shop, Pottstown, Pa. Architect, private plans. Owners, Brancote Foundry & Machine Co., Pottstown, Pa. Brick, 1 and 2 stories, 60x150 feet, slag roof, pine floors, electric lighting, fire doors. Owners taking sub-bids.

Factory (add.), Building No. 5, Stowe, Pa. Architect, Geo. Gerhard, Reading, Pa. Owners, Stanley J. Flagg Co., Stowe, Pa. Brick,

1 story, 23x121 feet, slag roof, electric lighting. Architect taking sub-bids.

Pumping Station (add.), near Phoenixville, Pa. Architects, American Pipe & Const. Co., 112 N. Broad street. Owners, Springfield Consolidated Water Co., 22 E. Madison avenue, Lansdowne, Pa. Brick, steel and stone, 1 story, 26x55 feet, slate roof, cement floors. Engineers, care of Mr. La Daux, taking bids due as soon as possible. Graham-Campion Co., Otis Building; Milton S. Grawl, Bulletin Building; Hughes-Poulkrod Co., Commonwealth Building; F. A. Havens & Co., 845 N. Nineteenth street; Pomroy Const. Co., 1609 Runstead street; Wark-Yardley Co., 1737 Filbert street, Philadelphia, and Wm. H. Dechant, Reading, Pa., are figuring.

Dwellings (5) and Garage, Eddystone, Pa. Architect, Herman H. Kline, Sixth and Mifflin streets, Pa. Owners, Berlingieri & Anastasi, 1633 S. Isenminger street, Philadelphia. Brick, 2 stories, 15½x32 feet, and 2 stories, 34x25 feet, slag roofs, yellow pine and cement floors, stone foundation, hot air and steam heating, electric lighting, kalamain doors, gasoline storage system. Plans in progress. Architect will be ready for bids in ten days.

High School, Eighth and Fulton streets, Chester, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, City of Chester, Board of Education, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone and reinforced concrete, 4 stories and basement, 240x115 feet, slate, J.-M. or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamain doors, hollow tile, metal lath, safety treads, roof ventilators, damp-proofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work and ventilating reserved). Owners taking bids, due November 9th. Warren-Moore Co., Colonial Trust Building, Philadelphia, and the Chester Cont. Co., Chester, Pa., are figuring.

Cottage, Beechwood Park, Montg. Co., Pa. Architect, E. T. Boggs, 136 S. Fourth street, Philadelphia. Owner, Miss Mary Crawley, care of architect. Frame, 2½ stories, 30x30 feet, shingle roof, pine floors, hot water or hot air heating, electric lighting, wire work. Architect taking bids, due November 10th. J. Paul Emrey, North Ynnfield, Pa.; J. Morton Warner, Bryn Mawr, Pa.; R. G. Ward, 663 North Sixty-third street; W. L. Evans, Beechwood, and Chas. C. Pace, Merion, Pa., are figuring.

Hotel, Fourth and Edgemont streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, George

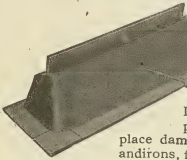
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**WHEELBARROWS
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DRAG SCRAPERS**

Fireplace Material



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If you build fire places or sell fire place dampers, ash traps, andirons, fire baskets, fire sets, etc., you should have our No. 1590-X Catalog.

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C. K. GOLDEN, Box 33, Bergen Station,
Jersey City, N. J.

Shober, 305 Market street, Chester, Pa. Stone foundations, brick, terra cotta and concrete, 4 stories, 70x80 feet, slag roof, steam heating, combination lighting, tile work, hollow metal skylights, fire towers and doors, yellow pine floors, metal lath, trunk lift, roof ventilators, ornamental iron work. Architect taking bids and sub-bids, due November 12th. Wark-Yardley Co., 1737 Filbert street, and Specht & Sperry, Heed Building; Wm. J. Erwin, 5927 Kingessing avenue, Philadelphia, additional bidders.

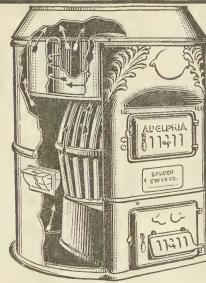
Tunnel (Pedestrian), Princeton avenue, Swarthmore, Pa. Architect, J. C. Antin, Wilmington, Del. Owners, P. W. & B. RR., Wilmington, Del. Brick, steel and concrete. Owners have received bids.

Residence (alt. and add.), Pinebrook, Paoli, Pa. Architect, Henry Wilhem Wilkinson, 13 West Thirty-eighth street, New York City. Owner, Arthur G. Dickson, Township Line, Paoli, Pa. Brick and stucco, 2 stories, 28x20 feet, shingle and tin roof, oak and pine floors, tile and marble work, hollow tile, metal lath, stone foundations (heating, lighting and plumbing reserved). Architect taking bids, due as soon as possible. R. C. Ballinger & Co., 218 North Thirteenth street, are figuring.

Barn, near Newtown, Pa., \$10,000. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, J. J. Tierney, Newtown, Bucks County, Pa. Stone and frame, 2 stories, 100x100 feet, shingle roof, pine and concrete floors. Plans in progress.

Residence (add.), near Newtown, Bucks Co., Pa. Architects, Fowler & Seaman, Broad St. Bank Building, Trenton, N. J. Owner, J. J. Tierney, Newtown, Pa. Stone, 2½ stories, 33x15 feet, shingle roof, pine floors. Architects taking bids, due November 10. C. Y. Stradling, Oxford Valley, Pa.; Joseph Taylor, Langhorne, Pa., and W. H. La Rue, Newtown, Pa., are figuring.

Garage, Pottsville, Pa. Architect, Frank X. Reilly, 112 South Centre street, Pottsville, Pa. Owners, John Raring & Wm. Pfifer, Pottsville, Pa. Brick, reinforced concrete and stone, 40x76 feet, slag roof, concrete floors (heating, plumbing and lighting reserved). Architect taking bids, due as soon as possible. E. Kreitzburg, 1345 Arch street, Philadelphia, is figuring.



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PENNSYLVANIA

Contracts Awarded

School, Dickson City, Pa., \$45,000. - Architect, J. J. Howley, Traders Bank Building, Scranton, Pa. Owners, School Board, Dickson City, Pa. Frame and stucco, 2 stories, 112x60 feet, slag roof, steam heating, electric lighting, pine floors, metal lath. Contract awarded to Wilson Lumber Co., Dickson City, Pa.

Garage, 328 N. Penn avenue, Wilkes Barre, Pa. Architect, Henry Maier Coal Exchange Building, Wilkes Barre, Pa. Owner, J. B. Alexander, Wilkes Barre, Pa. Brick, 1 story, 24x21 feet, rubberoid roof, concrete floors. Contract awarded to O. J. Behrens, Wilkes Barre, Pa.

Garage, Church street, Royersford, Pa. Architect, Vincent Poley, Royersford, Pa. Owner, Y. C. Freed, Royersford, Pa. Brick, 1 story, 24x24 feet, shingle roof, cement floors, electric lighting, gasoline storage system. Contract awarded to W. A. Becker, Royersford, Pa.

Garage, Womelsdorf, Pa. Architect, C. J. Young, Reading, Pa. Owner, George Hix, Womelsdorf, Pa. Brick, 1 story, composition roof, cement floors, electric lighting (heating reserved), gasoline storage system. Contract awarded to John H. Hollenback, Robeson, Pa.

Building No. 37 (add.), Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Crapenter Steel Works, Reading, Pa. Frame and iron, 1 story, 50x110 feet, corrugated iron roof, electric lighting. Contract awarded to Daniel H. Hunter, Reading, Pa.

Factory, Reading, Pa. Architects, Muhlenberg Bros., Reading, Pa. Owners, Reading Fire Brick Works, Reading, Pa. Frame and iron, 1 story, 60x100 feet, rubberoid roof, electric lighting. Contract awarded to Chas. Schlegel, Reading, Pa.

Erecting Shop, Eddystone, Pa. Architect, private plans. Owners, Baldwin Locomotive Works, 500 North Broad street, Philadelphia. Steel and concrete, 1 story. Too early for details. Contract awarded to F. W. Mark Cont. Co., Finance Building, Philadelphia.

Bungalow, Pocono Pines, Pa. Architects, Hancock & Hokanson, 1218 Chestnut street, Philadelphia. Owner, Henry J. Keltenthaler, 625 W. Upsal street, Germantown. Stone and frame, 1½ stories, 50x46 feet, shingle roof, pine floors, electric lighting. Contract awarded to A. Y. Hoffman, East Stroudsburg, Pa.

Service Station, Kingston, Pa., \$10,000. Architect, private plans. Owners, The Atlantic Refining Co., Market street, Wilkes Barre, Pa. Brick, stone and terra cotta, 1 story, 21x15 feet, tile roof, steam heating, electric lighting, tile and marble work, tile and composition floors, metal lath, hollow metal skylights, waterproofing, wire work (gasoline storage reserved). Contract awarded to Metzger & Fisher, Otis Building, Philadelphia.

Residence and Garage, Merion, Pa., \$15,000. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, M. J. Brown, Stephen Girard Building, Philadelphia. Stone, 2½ stories, 80x50 feet, and 1½ stories, 20x25 feet, shingle roofs, hot water heating, electric lighting, tile work, hardwood and ce-

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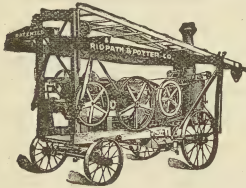
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ment floors. Contract awarded to E. J. Heden, Finance Building, Philadelphia.

Slaughter House, Quarrytown, Pa. Architect, E. L. Grosch, Hazleton, Pa. Owners, Middle Coal Field Poor District, John Bayliss, secretary, Scranton, Pa. Hollow tile, 2 stories, 20x48 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to Oliver Kunkel, Weatherly, Pa.

High School, Ashley, Pa., \$73,000. Architect, Austin L. Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Board of Education, Thos. Cole, secretary, Ashley, Pa. Brick and steel, 2 stories, 118x100 feet, slag roof, steam heating, electric lighting, composition floors, waterproofing. Contract awarded to E. J. Donohue, Ashley, Pa.

Bank, South Williamsport, Pa. Architect, J. J. Litzelman, Williamsport, Pa. Owners, Bank of South Williamsport, Williamsport, Pa. Stone, 1 story, 20x50 feet, tile roof, concrete floors (heating reserved), electric lighting, tile work, metal weather strips. Contract awarded to James V. Bennett & Co., Williamsport, Pa.

Bank, Williamsport, Pa. Architect, Arthur F. Rianhard, Masonic Temple, Williamsport, Pa. Owners, Branch Banking House for Northern Central Trust Co., Williamsport, Pa. Brick and stone, 1 story, 18x46 feet asbestos roof, concrete and tile floors (heating, electric work reserved), metal window guards. Contract awarded to James V. Bennett & Co., Williamsport, Pa.

Garage, 426 West Third street, Williamsport, Pa. Architect, J. J. Litzelman, Williamsport, Pa. Owner, Wm. V. Mussina, Williamsport, Pa. Stone, brick and stucco, 1 story, 83x106 feet, composition roof, concrete floors, electric lighting, rolled steel sash, waterproofing (gasoline storage system reserved). Contract awarded to Samuel Larrivee, Williamsport, Pa.

Bank Building (int. alt.), Wyoming avenue, Scranton, Pa. Architect, Ed. Langley, Scranton Life Building, Scranton, Pa. Owner, Third National Bank, Wyoming avenue, Scranton, Pa. Consists of marble counters and floors, bank fixtures and furniture and electric fixtures. Contract awarded to Pottier & Styms Co., Lexington avenue and Forty-first street, New York City.

Apartment House, South Washington street, Wilkes-Barre, Pa. Architect, Frank Sahn, Wilkes-Barre, Pa. Owner, Oscar Smith, feet, tin roof, oak floors, electric lighting. Contract awarded to A. D. Thomas, Wilkes-Barre, Pa.

Residence (alt. and add.), Bryn Mawr, Pa. Architect, Edw. T. Boggs, 146 South Fourth street, Philadelphia. Owner, Benj. G. Wells, Bryn Mawr, Pa. Stone, 2 stories, 18x19 feet, slate roof, oak floors, electric lighting, tile work, metal lath, mason work, plumbing, heating and cement work. Contract for mason work awarded to Wm. Cox, Bryn Mawr, Pa. Contract for carpentry awarded to Powell Dilworth, Bryn Mawr, Pa.

Board of Waterford Township, Camden Co., N. J. Brick, 1 story, 24x36 feet, shingle roof, pine floors. Owners will advertise for new bids, due November 23d.

Lunch Room (alts.), northwest corner Washington and Ellison streets, Patterson, N. J., \$20,000. Architect, F. Russell Stuckert, Crozer Building, Philadelphia. Owners, Travellers Lunch Co., Inc., of New Jersey, Patterson, N. J. Consists of interior alterations, metal lath, plastering, steam heating, electric lighting, tile walls and floors, marble work, electric lighting, plumbing, lighting and plumbing fixtures. Architect ready for sub-bids on all lines.

Store Front, East State street, Trenton, N. J. Architect, A. W. Kleeman, Second National Bank Building, Trenton, N. J. Owner, Jonas A. Fuld, Trenton, N. J. Brick, 1 story, 25 feet, flush bulks. Architect taking bids, due as soon as possible.

School, Yardville Heights, N. J. Architects, Slack & Son, St. Regis Building, Trenton, N. J. Owners, School Board of Hamilton Township, Mercer Co., N. J. Brick, 2 stories (4 rooms), (steam heating, electric work and plumbing reserved), slate roof, pine floors. Owners have received bids.

Residence (alt. and add.), 35 Aberdeen Place, Atlantic City, N. J., \$5,000. Architect, Seward G. Dobbins, 18 South Virginia avenue, Atlantic City. Owner, J. Vogler, Atlantic City, N. J. Brick and frame, 2 stories, 14x20 feet, slate roof, hot water heating, electric lighting, tile work (lighting fixtures reserved). Architect taking bids, due November 15th. Ellsworth E. Smith and H. G. Scull, both of Atlantic City, are figuring.

Residence and Garage (alt. and add.), northeast corner of Harrisburg avenue and Thorfare, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Allan K. White, Atlantic City, N. J. Brick and frame, 3 stories, 60x32 feet, slate roof (electric lighting and hot water heating reserved), tile and marble work, composition floors, elevator. Architect taking revised bids. H. G. Scull, C. P. Tilton, N. W. Young, P. G. Hannum, and Charles D. Thompson, all of Atlantic City, are figuring.

Apartment House, 1300-06 Atlantic avenue, Atlantic City, N. J. Architect not selected. Owner, Andrew Jacoby, 1324 Atlantic avenue, Atlantic City, N. J. Six stories, 110x150 feet. Work contemplated.

Apartment, 137-39 South Carolina avenue, Atlantic City, N. J. Architect, J. R. Ogden, 143 South South Carolina avenue, Atlantic City, N. J. Owner's name withheld. Brick, 3 stories, 54x50 feet, slag roof, steam heating, electric lighting, tile and marble work, hardwood floors, metal lath. Architect taking sub-bids, due as soon as possible.

Residence (alt. and add.), South Chelsea avenue, Atlantic City, N. J., \$5,000. Architect, V. B. Smith, Shen Building, Atlantic City, N. J. Owner, Wm. Holten, care of architect. Frame, interior alterations, 3 stories, electric lighting, tile and marble work. Architect taking bids. Chas. S. Corson, W. B. Porch and M. T. Sharp, all of Atlantic City, N. J., are figuring.

Factory, Yardville, N. J., \$20,000. Architect, J. O. Hunt, 114 North Montgomery st., Trenton, N. J. Owners, Zee Zee Tire and Rubber Co., Trenton, N. J. Brick and concrete, 1 story, 50x83 feet, slag roof, concrete floors, steam heating, electric lighting, rolled steel sash and skylights, fire doors. Architect taking bids, due November 12th. J. H. Morris, Burton & Barton, and Fred Scott, all of Trenton, N. J., are figuring.

Sewage Disposal, Pleasantville, N. J., \$150,

NEW JERSEY Construction News

Warehouse (add.), (4 bays), Camden, N. J. Architect, private plans. Owners, New York Shipbuilding Co., Camden, N. J. Reinforced concrete and brick, 1 story, 88x25 feet each, J-M roof, cement floors, hollow metal sky-

lights, roof ventilators. Owners have received bids.

Waterford Township, Camden, N. J., \$3,000. Architect, Arnold H. Moses, 136 S. Fourth street, Philadelphia. Owners, School

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000. Architects, Remington & Vosbury, Sixth and Market streets, Camden, N. J. Owners, City of Pleasantville, care of City Council, Pleasantville, Pa. Consists of 17 miles of sewers, screening station, pumping station. Owners taking bids. Martin, Miller & Pizziment, Pitman, N. J.; Sutton, Bader & Ferry, Longport, N. J.; Pacific Flush Tank Co., New York City; Atlantic Construction and Supply Co., Atlantic City, N. J.; John M. Kelly, Camden, N. J.; Cantrell Const. Co., Thirtieth and Walnut streets, and Louis, Robinson & Gant, Land Title Building, Philadelphia, are figuring.

School, Glassboro, N. J., \$74,000. Architects, Moffett & Stewart, Inc., 30 North Third st., Camden, N. J. Owners, Board of Education, Glassboro, N. J. Brick, fireproof, 2½ stories. Plans in progress. Too early for details.

New Jersey Contracts Awarded

Entrance Gates to the new Interstate Fair, Trenton, N. J. Architect, W. A. Kleeman, Second National Bank Building, Trenton, N. J. Owners, Interstate Fair Assn., Commonwealth Building, Trenton, N. J. Consists of small brick and stucco building, 1 story, slate roof, concrete work, iron gates. Contract awarded to Burton & Burton, American Mechanics' Building, Trenton, N. J.

Laundry, Vineland, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, Home for Feeble Minded Women, Vineland, N. J. Brick, 1 story, 40x86 feet, slag and slate roof, cement floors, steam heating, electric lighting, hollow metal skylights, roof ventilators. Contract awarded to George W. Shaner, Palmyra, N. J.

Girls' Dormitory Building, Bordentown, N. J. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, Board of Managers, School for Colored Youths, Bordentown, N. J. Brick, 2 stories, 40x60 feet, slag roof, pine floors, steam heating, electric lighting. Contract awarded to Charles Fennimore, Bordentown, N. J.

House of Detention (add.), Trenton, N. J. Architect, F. H. Bent, State Capitol, Trenton, N. J. Owners, New Jersey State Hospital, Trenton, N. J. Reinforced concrete and brick, 3½ stories, 30x160 feet, and 2½ stories, 35x



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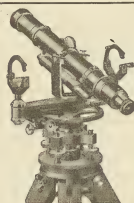
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149 feet, slag roof, reinforced concrete, tile and composition floors, steam heating, electric lighting, metal lath and sash, waterproofing,

fire doors, safety treads, metal lockers. Contract awarded to Matthews Const. Co., Princeton, N. J.

MARYLAND Construction News

Garage, Greenhouse and Engine House, Singler, Md. Architect, E. Canby May, Dupont Building, Wilmington, Del. Owner, T. W. Baechus, Singler, Md. Frame, 1 story, 40x28 feet and 28x14 feet, slate roof, cement floors, electric lighting, gasoline storage system. Architect ready for bids.

Abattoir, Cold Storage Building, Tank House, Power House and Garage, Sixth street and Wilkens avenue, Baltimore, Md. Architects, Gardner & Lindberg, Marquette Building, Chicago, Ill. Owners, Cockran, Hill & Co., 221 South Howard street, Baltimore, Md. Reinforced concrete, steel, stone and brick, 3 stories, 90x220 feet, composition roof, direct and indirect system of heating, electric lighting, ornamental iron work, fire escapes, rolled steel sash, hollow metal skylights, roof ventilators, hollow tile, metal lath, electric elevators, plumbing. Plans in progress.

Residence, Garrison and Piedmont avenues, Baltimore, Md. Architect, J. Franklin Nelker, Professional Building, Baltimore, Md. Owner, George H. Textor, Baltimore, Md. Stone foundations, brick and frame, 1½ stories, slate roof, tile work, electric lighting, hot water heating, plastering, plumbing. Architect taking bids. E. G. Turner, 15 East Fayette street, Baltimore, is figuring.

Factory Building, Bayard, Ridgely and Bush streets, Baltimore. Engineer, P. O. Keilholtz, Continental Building, Baltimore, Md. Owners, Porcelain Enamel and Manufacturing Co., O'Donell and Eighth streets, Baltimore, Md.

Reinforced concrete, steel and brick, 1 story, 120x320 feet; slag roof, steel sash, plumbing, glazing. Engineer taking bids, due November 8th. Harry H. Brown, 212 Clay street; C. E. Stubbs, Equitable Building; B. F. Bennett Building Co., 123 South Howard street; Chas. L. Stockhausen Co., Gay and Water street; West Const. Co., American Building; John Hiltz & Son, No. 3 Clay street; Price Const. Co., Maryland Trust Building; John Waters Building Co., 23 East Center street, and Fritzsche Company, all of Baltimore, Md., are figuring.

Building (alts.), 133 West Mt. Royal avenue, Baltimore, Md. Architect, Theo. W. Pietsch, American Building, Philadelphia. Owners, Tire Company of Baltimore, care of Mr. McGraw, 135 West Mt. Royal avenue, Baltimore, Md. Consists of new front, marble work, metal bulks, electric lighting. Architect taking bids. Cogswell-Koether Co., 406 Park avenue; Consolidated Eng. Co., Calvert Building; Cowan Building Co., 106 West Madison street; John S. Busick, 2811 Raynor avenue; J. Henry Smith, 1426 Light street, all of Baltimore, Md., are figuring.

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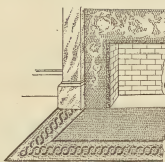
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MARYLAND

Contracts Awarded

Boiler House, Pump Room and (4) Toilet Buildings, Baltimore, Md. Architects, Day & Zimmerman, 611 Chestnut street, Philadelphia. Owners, The Baltimore Dry Docks & Shipbuilding Co., Baltimore, Md. Reinforced concrete and brick, 1 story, 69x57 feet, 1 story, 10x12 feet and 1 story, 30x14 feet, 30x14 feet, 40x14 feet, and 30x15 feet, slag roofs, electric lighting, hollow metal and rolled steel sash, fire doors, waterproofing, wire work, ornamental iron work. Contract awarded to the West Const. Co., Baltimore, Md.

Power House (alts. and add.), Highlandtown, Md. Architect, Otto G. Simonson, Maryland Casualty Tower, Baltimore, Md. Owners, Crown Cork and Seal Co., Guilford avenue, Baltimore, Md. Concrete work, reinforcing steel, hollow metal skylights, glazing, rolled steel sash, changing monitor. Contract awarded to the West Const. Co., American Building, Baltimore, Md.

Church (add.), Chester near Orleans street, Baltimore, Md. Architect, private plans. Owners, Friedens Evangelical Lutheran Church, on premises. Brick, 26x85 feet and 13x19 feet,

composition roof, electric lighting, steam heating, metal ceiling, concrete work, plastering and painting, plumbing. Contract awarded to H. Guttman & Co., 1536 North Gay street, Baltimore, Md.

Residences (5), Roland avenue, Baltimore, Md. Architect, private plans. Owners, Golbe Realty Co., 2903 Laurens avenue, Baltimore, Md. Brick, 2½ stories, slate roof, hot water heating, electric lighting, tile work, plastering, painting, plumbing. Owners will sub-let.

Residences (9), Winchester street and Dukeland avenue, Baltimore, Md. Architect, Geo. Wessel, 614 North Dukeland avenue, Baltimore, Md. Owners, Columbia Development Co., 12 East Lexington street, Baltimore, Md. Brick, 2 stories, 14x47 feet, slate roof. Owners will sub-let.

Residences (7), Park Heights avenue, south of Gordon Lane, Baltimore, Md., \$10,000. Architect, Wm. Callahan, Baltimore, Md. Owner, Paul B. Mules, Gunther Building, Baltimore, Md. Brick, 2 stories, 20x36 feet, slag roof. Owner will sub-let.

Garage, 3104 West North avenue, Baltimore,

Md., \$150,000. Architect, F. E. Beall, 306 St. Paul street, Baltimore, Md. Owners, Milbourn Bros., Edmondson avenue and Calverton road, Baltimore, Md. Brick, 2 stories, 50x150 feet, slag roof, concrete floors, electric lighting, steam heating, iron work. Builder, F. A. Lazenby, 414 Key Highway, Baltimore, Md., is ready for sub-bids.

Garage, rear 2907 Chelsea road, Baltimore, Md. Architect, Norman E. Horn, 3009 Windfall avenue, Baltimore, Md. Owner, Robert J. B. Stewart, 2907 Chelsea road, Baltimore, Md. Frame, 1 story, 16x21 feet, composition roof, electric lighting, cement floors, plumbing. Owner will sub-let.

Garage, 3427 Greenmount avenue, Baltimore, Md. Architect, private plans. Owners, Tourist Garage, care of Joseph C. Smith, 16 East Lexington street, Baltimore, Md. Brick, concrete foundations, 1 story, 152x82 feet, slag roof, ventilators, millwork, concrete floor (heating, electric lighting and plumbing reserved). Contract awarded to P. J. Cushen, 217 St. Paul street, Baltimore, Md.

Miscellaneous Construction News

Emergency Hospital, Naval Hospital, Brooklyn, N. Y. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, stucco, terra cotta and reinforced concrete, 2 stories and basement, 162 x28 feet, 3 wings, 29x150 feet, 2 wings, 42 x56 feet, and (1) wing, 42x56 feet, slag roof, mceent and tile floors, steam heating, electric lighting, tile and marble work, rolled steel skylights, kalamein doors, hollow tile, metal lath, electric elevators, roof ventilators, metal window guards, waterproofing, wire work, iron stairs, ornamental iron work. Owners taking bids, due November 12th. Cramp & Co., Denckla Building, are figuring.

Cold Storage Warehouse, Pier, Bulkhead, Sea Wall, Provincetown, Mass., \$150,000. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Provincetown Cold Storage Co., Provincetown, Mass. Frame, 5 stories, 100x200 feet, tile roof. Plans in progress.

Residence, Warrentown, Va. Architects, Mellvaine & Roberts, Otis Building, Philadelphia. Owner, Mrs. F. E. Bowman, Warrentown, Va. Stone, brick and stucco, 2 stories, 98x28 feet, shingle roof, vapor heating, electric lighting, tile work, oak and pine floors, hollow tile, dampproofing. Architect taking bids, due November 12th. Graham-Campion Co., Otis Building; Metzger & Fisher, Otis Building; James H. Wells, Otis Building; A. L. Smith, Woodward Building, Philadelphia; James B. Davis, 613 Fourteenth street, N. W., Washington, D. C.; E. G. Heffin, Law Building, Fredericksburg, Va., and Mr. Handback, Warrentown, Va., are figuring.

Residence, Stable, Garage and Farmer's Cottage, Warrentown, Va. Architects, Mellvaine & Roberts, Otis Building, Philadelphia. Owner, S. S. Preston, Otis Building, Philadelphia. Stone and brick, 3 stories, 30x84 feet, 1½ stories, 36x44 feet, 1½ stories, 21x34 feet, and 2 stories, 23x27 feet, slate and tin roof, oak, pine and cement floors, vapor heating, electric lighting, tile and marble work. Architects taking bids, due November 12th. Graham-Campion Co., Otis Building; Metzger & Fisher, Otis Building; James H. Wells, Otis Building; A. L. Smith, Woodward Building,

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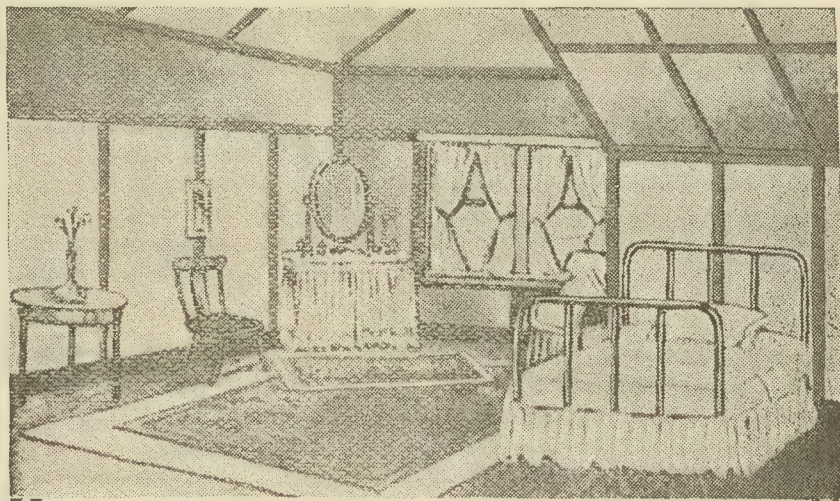
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Philadelphia; James B. Davis, 613 Fourteenth street, N. W., Washington, D. C.; E. G. Heflin, Law Building, Fredericksburg, Va., and Mr. Handback, Warrentown, Va., are figuring.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Garage, 1217 Wakeling street, \$500. C. West & Co. (O and C), Oxford avenue and Wakeling street. Brick, 1 story, 10x17 feet, slag roof.

Garage, Cheltenham and Woodstock streets, \$600. Dr. J. Metz (O), Cunningham (O), on premises. T. L. Davis (C), Thirteenth and Nedro streets. Brick, 1 story, 12x18 feet, slag roof.

Wagon and Lumber Shop, 5038 Westminister avenue, \$950. H. L. Manning (O), 2124 Catherine street. H. F. Dillon (C), 1223 S. Twentieth street. Brick, 16x50 feet, slag roof.

Garage and Storage, 3605 Smedley street, \$5,500. Wm. J. Dooley (O), 3717 North Sixteenth street. Morris Yellin (C), 712 North Franklin street. Brick, 2 stories, 30x41 feet, slag roof, steam heating.

Dwelling and Garage, Mt. Pleasant and Stenton avenues, \$22,500. A. S. Tourison (O), 7014 Boyer street. A. S. Tourison, Jr. (C), 7014 Boyer street. Stone, 3 stories and 2

stories, 29x49 feet and 22x29 feet, slate roof, hot water heating.

Machine and Treatment Forge and Open Hearth Shops (4), Bleigh and Milnor to river, \$377-100. Tacony Ordinance Corp. (O), Tacony, Pa. F. W. Mark Const. Co. (C), Finance Building. Reinforce concrete, 1 story, 129x271 feet; reinforce concrete, 1 story, 123x112 feet; reinforce concrete, 1 story, 133x336 feet; reinforce concrete, 1 story, 114x189 feet, slag roofs.

Crane Runway, Bleigh and Milnor streets, \$19,700. Tacony Ordinance Corp. (O), Tacony, Pa. F. W. Mark Const. Co. (C), Finance Building. Concrete footings, steel crane way.

Store and Dwelling, Eighty-third and Bastian avenue, \$2,000. Geo. Kyle (O and C), Seventy-third and Grays avenue. Brick, 2 stories, 17x40 feet, slag roof, hot air heating.

Factory, Thirtieth and Reed streets, \$10,000. Joe D. Murphy (O and C), southwest corner Thirtieth and Reed streets. Brick, 1 story, 30x95 feet, slag roof.

Store and Shop, 1409 Germantown avenue, \$2,500. Leopold Greenburg (O and C), on premises. Brick, 2 stories, 20x50 feet, slag roof.

Garage, 2003 Cambridge street, \$2,800. G. A. Muller (O), 2002 Girard avenue. Philip Haiback Const. Co. (C), 1261 North Twenty-sixth street. Brick, 1 story, 28x42 feet, slag roof.

Garage, 5119 Frankford avenue, \$470. Chas. Disnev (O), 1629 Dyre street. C. C. Cain (C), 1654 Dyre street. Frame, 1 story, 20x24 feet, slag roof.

Store, 2440 Kensington avenue, \$1,000. John & Josephine Hogan (O), 622 Frazier street. Miller & England (C), 1124 Washington st. Brick, 1 story, 12x17 feet, slag roof.

Garage, 7116 Park avenue. A. Walsh (O), 715 North Broad street. M. Morster & Co (C), 3931 North Fifth street. Iron on iron, 1 story, 14x14 feet.

Garage, Seventeenth and Sedgley avenue, \$500. H. C. Harding Co., Inc. (O), on premises. M. Moister & Co. (C), 3931 North Fifth street. Iron on iron, 14x28 feet, 1 story.

Garage, 1351 Mechanic street, \$350. T. R. McGrath (O and C), on premises. Stone, 1 story, 20x30 feet, cement floors.

Garage, 533 Walnut lane, \$400. Chas. Martyn (O and C), on premises. Brick, 1 story, 16x18 feet.

Garage, 3435 Bowman avenue, \$1,450. Geo. Kindon (O), 3433 Bowman avenue. G. H. Stenile (C), 3443 Sunnyside avenue. Stone, 1 story, 20x47 feet, slag roof.

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Alterations and Additions

Office and Factory, Wayne and Windrim avenue, \$3,800. Brown Instrument Co. (O), on premises. R. C. Ballinger & Co. (C), 218 North Thirteenth street. Brick, 2 stories, 30 x23 feet, slag roof.

Elevator Shaft, 221 South Twelfth street, \$9,000. S. S. White Dental Mfg. Co. (O). Turner Concrete Steel Co. (C), 1713 Sansom street. Elevator shaft, brick.

Dwelling, 655 North Eleventh street, \$350. Robert Robinson (O), 1842 Venango street. John McCoy (C), 1215 Summer street. Alterations.

Storage, Madison and "F" streets, \$800. C. Nelson (O), 701 E. Madison street. J. H. Hartley (O), 807 E. Schiller street. Brick, 2 stories, 0x15 feet.

Dwelling, 502 South Forty-second street, \$850. Alex Wilson, Jr. (O), 5156 Haverford avenue. S. E. Brown Heating Co. (C), 18 S. Seventh street. Low pressure steam heat.

Dwelling, 632 Spruce street, \$700. Ed. Munk (O), on premises. S. E. Brown Heating Co. (C), 18 South Seventh street. Vapor steam heating.

Dwelling, 6612 Emlen street, \$700. Geo. E. Wagner (O), on premises. S. E. Brown Co. (C). Steam heating.

Dwelling, 53 West Cheltenham avenue, \$350. Dr. Jas. Glosann (O), on premises. S. E. Brown Co. (C), 18 South Seventh street. Heater for hot water heating.

Garage, 409 North Randolph street, \$800. Frank Schang (O), on premises. S. E. Brown Co. (C), 18 South Seventh street. Low pressure steam heating.

Dwelling, 1322 McClellan street, \$400. V. Cappiello (O and C), on premises. Brick, 2 stories, 11x11 feet, slag roof.

Garage, 2115 South Eighth street, \$7,500. Sol. Hopkins (O and C), 1330 Arch street. Brick, 1 story, 15x159 feet; brick, 1 story, 30x15 feet, slag roof.

Dwelling, 336 South Sixth street, \$700. F. Perlmutter (O), 336 South Sixth street. H. Pearl (C), 155 South Sixth street. Brick, 1 story, 1x12 feet, slag roof.

Garage, Point Breeze avenue and Moore street, \$2,500. M. W. Dougherty (O and C), 2134 South Broad street. Brick, 1 story, 32x50 feet, slag roof.

Dwelling, 259 E. Sharpnack street, \$400. John De Paul (O), on premises. Michael De Paul (C), on premises. Brick, 2 stories, 8x10 feet, tin roof.

Garages (O). Widner Place and Fifteen st., \$1,500. D. Coffman (O), 417 Lafayette Building. P. Robin (C), 2322 E. Camden street. Stone and Brick, 1 story, 12x20 feet.

Dwelling, Frankford and Grand avenues, \$500. Chas. Davis (O). Orthodox street and Asylum pike. Ed. F. Bender (C), 6014 Torredale avenue. Repair only.

Garage, 3428 North Eighteenth street, \$2,000. Eastern Top & Body Co. (O) on premises. H. A. L. Smink (C), 5320 North Twelfth street. Alterations.

Garage, 1422 Fairmount avenue, \$425. H. Corvin (O), 1429 Brown street. H. D. Mecker (C), 1805 Vineyard street. Steam heating plant.

Machine Shop, Seventy-second and Yocum streets, \$1,400. Wm. B. Chambers (O), 7211 Woodland avenue. Geo. S. Roe (C), 6949 Saybrook avenue. Brick, 1 story, 3x3 feet, slag roof.

Store and Dwelling, 2841 Wharton street, \$890. Dr. James Gaffney (O), on premises. H. G. Dillon (C), 1223 South Twentieth street. New bulks.

Office Building, Fifth and Clearfield streets, \$600. Anderson & Slonaker (O), Beach and Poplar streets. W. H. Ellis (C), 344 North Fourth street. Brick, 1 story, 21x32 feet.

Garage, Milnor and Fitter streets, \$375. Walter G. Smith (O), on premises. S. E. Brown (C), 18 South Seventh street. Low pressure hot water heating.

Dwelling, 1407 South Twentieth street, \$400. J. McCallister (O), on premises. Geo. Hill (C), 5721 Springfield street. Brick, 1 story, 11x12 feet.

Feeding Capola, Sixth and Cayuga streets, \$2,000. Jas. Baker, Inc. (O), on premises. Stewart Bros. (C), 2528-30 North Orkney st. Iron on iron, 1 story, 16x45 feet.

Dwelling, St. Joseph's College, \$1,000. St. Joseph's Academy (O), City Line and Germantown avenue. John McShain (O), 1610 North street. Stone, 2 stories, 14x8 feet.

Factory, Seventh and Willow streets, \$3,000. General Elect. Co. (O), on premises. Federal Sign System (C), 1627 Sansom street. Roof sign.

Film Building, 1225-27 Vine street, \$3,500. B. Alexander (O), Penfield Building. D. Henwood (C), 1509 Wood street. Brick, 1 story, 52x50 feet, slag roof, cement floors.

Shop, 1351 Reno street, \$800. Murray White (O), Morris Building. D. Henwood (C), 1509 Wood street. Alterations.

Garage, 224 Arch street, \$9,500. McNamee Estate, care of Jos. McNally (O), 10 South Tenth street. Evans Const. Co. (C), 9 S. Eighteenth street. Brick, 1 story, 131x51 feet, slag roof.

Chimney, Twenty-sixth and North avenue, \$3,490. Girard Point Storage Co. (O), Girard Point. H. R. Hinnike, Inc. (C), 21 South Twelfth street. Brick chimney.

Dwelling, Orthodox street, west of Large, \$800. Wallace Wilson (O), Asylum pike and Orthodox street. Wm. Lentz (C), 4715 Penn street. Brick, 2 stories, 49x8 feet, tin roof.

Offices, Eighteenth and Noble streets, \$3,000. Thos. Cusack Co. (O), 814 Walnut st. The Freund Cont. Co. (C), 307 Bulletin Building. Alterations.

Shed, Sixtieth and Woodland avenue, \$2,000. Baltimore & Ohio R. R. Co. (O), Twenty-fourth and Chestnut streets. Open shed, 12x200 feet, wood.

Foundry, Seventeenth and Allegheny avenue, \$675. Harrison Boiler Co. (O), on premises. Stewart Bros. (C), 2528 North Orkney street. Iron on iron, 1 story, 14x14 feet.

Garage, 1335 Frankford avenue, \$5,500. Vees Garage (O), on premises. Bauerle & Erny (C), 4301 North Seventh street. Brick, 1 story, slag roof, irregular size.

Apartment, 4300 Chestnut street, \$400. Real Estate Bonding Co. (O), 34 South Fortieth street. Wm. S. Grove (C), 12 North Forty-first street. Alterations.

Store and Dwelling, 1950 E. Lehigh avenue, \$300. J. S. Clark (O), on premises. C. Bonner (C), 2838 North Front street. Alterations to front.

Store, 1006 Chestnut street, \$2,000. G. A. Schwarz (O), on premises. A. Raymond Raff Co. (C), 1633-35 Thompson street. Alterations.

Theatre, Fifty-second and Sansom streets, \$2,300. Hatch & Adams Co. (O), on premises. P. M. Sax (C), Franklin Bank Building. Interior alterations.

Store, 6117 Woodland avenue, \$2,800. B. Kline (O), on premises. Bierns & Cylander (C), 521 Mifflin street. Brick, 2 stories, 16x13 feet, slag roof, interior alterations.

Store Building, 107 North Nineteenth street, \$1,400. Foote Mineral Co. (O), on premises. L. Makin Heating Co. (C), 1827 Filbert st. Warm air heating installed.

Machine Shop, 316-14 South Lawrence st., \$500. Jos. F. Schiller (O and C), on premises. Alterations.

Factory, High and Mallory streets, \$1,000. John P. Bolt (O), Manayunk, Philadelphia. The Freund Const. Co. (C), Bulletin Building. Alterations.

Store, Duval and Jefferson streets, \$2,100. L. Zimmerman (O), 100 North Fifty-fourth st. E. A. Heffner (C), 6361 Jefferson street. Brick, 1 story, 21x14 feet, slag roof.

Factory, Gaul and Gordon streets, \$450. Butterworth & Son Co. (O), York and Cedar sts. The John Baizley Iron Co. (C), 514 South Delaware avenue. Fire escape.

Apartments, Second and Lombard streets, \$500. Jos. Eckhard, agt (O), 734 S. Second street. The John Baizley Iron Co. (C), 514 South Delaware avenue. Fire escape.

Apartment, 628 Spruce street, \$600. Mrs. M. Brown (O), on premises. The John Baizley Iron Works (C), 514 South Delaware avenue. Fire escape.

Storage, 206 Ionics street, \$1,675. Mary Ferreuche (O), 712 Passyunk avenue. Lanzellotti & Nelveri (C), 712 Christian street. Alterations.

Factory, 1510 Washington avenue, \$2,000. Wm. C. Chapman & Son (O), on premises. Doyle & Co. (C), 1519-21 Sansom street. Brick, 2 stories, 47x19 feet, slag roof.

Warehouse, 912-14 Race street, \$360. Junken Lit (O), Seventh and Market streets. John N. Gill Co. (C), Otis Building. Alterations.

Storage Building, Third and Venango sts., \$3,000. Allen Iron & Steel Co. (O), on premises. Stuart Bros. (C), 2528 North Orkney street. Brick, 1 story, 84x35 feet.

Garage, 4273 Paul street, \$335. John S. Davis (O), on premises. C. C. Cain (C), 1654 Dyrce street. Alterations.

Oleo Building, Ontario and Richmond sts., \$1,500. The Berg Co. (O and C), on premises. Fire repairs.

Foundry, 2318 Washington avenue, \$2,500. J. McCaffrey (O and C), 1624 South Eighteenth street. Repair fire damage.

Store and Dwelling, 2905 South street, \$1,850. Mary Hub (O), 4362 North Broad street. Henry Hopmaier (C), 2247 North Fifth st. New flush bulk, brick, 1 story, 3x30 feet, 1 story, 15x16 feet.

Store, 416 North Front street, \$400. Eis Dele (O), 3021 Westfield avenue, Camden, N. J. A. H. Spenard (C), 822 Wood street. Alterations.

Shop, Lefever and Salmon streets, \$300. General Repair Mfg. Co. (O), 4263 E. Thompson street. Lewis Ahlers, Jr. (C), 4412 Salmon street. Frame, 1 story, 12x12 feet.

Store, 510 Market street, \$1,350. Sam Meyers Est. (O), Twenty-second and Market street. Lam Building Co. (C), 1001 Wood street. Fire repair.

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Reference Directory for Architects, Builders and Owners

- Artesian Wells.**
 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
 Ridpath & Potter Co., Bourse Bldg., Phila.
 John B. Rulon, 1355 Colwyn st., Phila.
- Artists' and Architects' Supplies.**
 Chas. H. Robbins, 125 S. 11th st., Phila.
 Warren-Knight Co., 136 N. 12th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Blue Prints.**
 Chas. H. Robbins, 125 S. 11th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Blue Print Paper.**
 Chas. H. Robbins, 125 S. 11th st., Phila.
- Brick (Face, Etc.).**
 O. W. Ketcham, Builders' Exchange, Phila.
- Brick Renovating.**
 Adolph Christensen, 1433 Brown st., Phila.
- Builders.**
 Graham-Campion Co., Otis Bldg., Phila.
 Hogg Construction Co., Inc.,
 1634 Sansom st., Phila.
 Mitchell Bros., 2125 Beece st., Phila.
 Pomeroy Const. Co., 1609 Ranstead st., Phila.
- Builders' Supplies.**
 P. H. Fairlamb Co., 115 S. 30th st., Phila.
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- Cement.**
 P. H. Fairlamb Co., 115 S. 30th st., Phila.
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 Tasker st. wharf, Delaware River, Phila.
 Lehigh Portland Cement Co., Penna. Bldg., Phila.
- Columns (Metal).**
 Pearce Fireproof Co., 1345 Arch st., Phila.
- Composition Flooring.**
 Philadelphia Mineral Flooring Co.,
 5632 Summer st., Phila.
- Woodoleum Manufacturing Co.,**
 203 Liberty Bldg., Phila.
- Dampproofing.**
 The Barrett Co., New York City and Phila.
- Door Hangers.**
 Grant Pulley and Hardware Co., 101 Park ave.,
 N. Y., and 339 Land Title Bldg., Phila.
- Drawing Materials.**
 Charles H. Robbins, 125 S. 11th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Electrical Construction.**
 Baird-Osterhout Construction Co.,
 1620 Chancellor st., Phila.
- Elevators.**
 A. B. See Electric Elevator Co.,
 Colonial Trust Bldg., Phila.
- Engineers' Supplies.**
 Charles H. Robbins, 125 S. 11th st., Phila.
 Warren-Knight Co., 136 N. 12th st., Phila.
 F. Weber & Co., 1125 Chestnut st., Phila.
- Fences.**
 Anchor Post Iron Works,
 Real Estate Trust Bldg., Phila.
- Fire Doors.**
 Merchant & Evans Co.,
 2035 Washington ave., Phila.
- Fireplace Material.**
 Stover Mfg. & Engine Co., Freeport, Ill.
 B. M. Christman, 1223 S. 52nd st., Phila.
- Fireproofing.**
 Pearce Fireproof Co., 1345 Arch st., Phila.
 Trussed Concrete Steel Co.,
 Commonwealth Bldg., Phila.
- Floor Plates.**
 Alan Wood Iron and Steel Co.,
 Widener Bldg., Phila.
- Furnaces and Ranges.**
 Borden Stove Co., 1311-13 Arch st., Phila.
 Henry M. Miller, 46-48-50 N. 2d st., Phila.
 Richardson and Boynton Co., 1342 Arch st., Phila.
- Garage (Portable).**
 Service Equipment Co., Bourse Bldg., Phila.
- Gas and Gas Appliances.**
 United Gas Improvement Co.,
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 Holmesburg Granite Co.,
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 Fleck Bros. Co., 44 N. 5th st., Phila.
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 Richardson and Boynton Co., 1342 Arch st., Phila.
- Insurance.**
 Harris J. Latta, Penna. Bldg., Phila.
 Insurance Co. of North America,
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- Lighting Fixtures.**
 Staman & Dickey, 30 S. 16th st., Phila.
- Lumber.**
 James E. Tague & Co.,
 10th and Columbia ave., Phila.
- Marble Mosaic.**
 Belfi Bros. & Co., 1923 Market st., Phila.
 Italian Marble Mosaic Co., 433 Spruce st., Phila.
 Roman Mosaic and Tile Co., 435 Green st., Phila.
- Metal Lath.**
 Pearce Fireproof Co., 1345 Arch st., Phila.
 Trussed Concrete Steel Co.,
 Commonwealth Bldg., Phila.
- Meters.**
 Philadelphia Meter Co.,
 Real Estate Trust Bldg., Phila.
- Mill Supplies.**
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 Service Equipment Co., Bourse Bldg., Phila.
- Paints and Varnishes.**
 Felton, Sibley & Co., 136 N. 4th st., Phila.
- Pipe Fittings and Valves.**
 The Fairbanks Co., 7th and Arch sts., Phila.
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 Fleck Bros. Co., 44 N. 5th st., Phila.
 James A. Vogel Co., Wilmington, Del.
 Keystone Supply & Mfg. Co., 913 N. 9th st., Phila.
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 F. E. Sagendorph, 24th and Walnut sts., Phila.
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 The Barrett Co., New York City and Phila.
- Roofing Slate.**
 C. F. Shellenberger, Builders' Exchange, Phila.
- Roofing Tile.**
 O. W. Ketcham, Builders' Exchange, Phila.
 C. F. Shellenberger, Builders' Exchange, Phila.
- Sash Pulleys.**
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- Sewer Pipe and Flue Linings.**
 C. F. Shellenberger, Builders' Exchange, Phila.
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 Commercial Trust Bldg., Phila.
- Soundings.**
 Artesian Well Drilling Co.,
 Real Estate Trust Bldg., Phila.
- Ridpath & Potter Co.,** Bourse Bldg., Phila.
John B. Rulon, 1355 Colwyn st., Phila.
- Sprinklers.**
 Merchant & Evans Co.,
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- Structural Engineer.**
 Harry C. Eisenbise, Penna. Bldg., Phila.
- Surety Bonds.**
 Harris J. Latta, Penna. Bldg., Phila.
- Terra Cotta (Architectural).**
 O. W. Ketcham, Builders' Exchange, Phila.
- Test Borings.**
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 Real Estate Trust Bldg., Phila.
- Ridpath & Potter Co.,** Bourse Bldg., Phila.
John B. Rulon, 1355 Colwyn st., Phila.
- Tile and Terraza Work.**
 Belfi Bros. & Co., 1923 Market st., Phila.
 Italian Marble Mosaic Co., 433 Spruce st., Phila.
 Roman Mosaic and Tile Co., 435 Green st., Phila.
- Ventilators.**
 Merchant & Evans Co.,
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 Cell Board.
- James E. Tague & Co.,**
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 N. W. Cor. 12th and Spruce sts., Phila.
- Waterproofing.**
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- Water Supply.**
 Harrison, Mertz & Emlen, Inc.,
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- Weather Strip (Metal).**
 Diamond Flexible Metal Weather Strip Co.,
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 S. B. MacDowell & Son,
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- Window Screens.**
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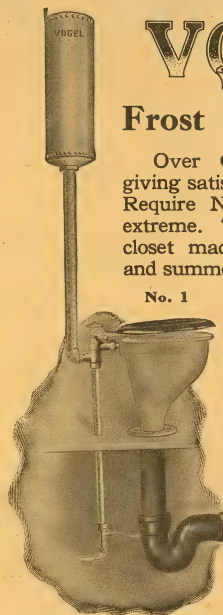
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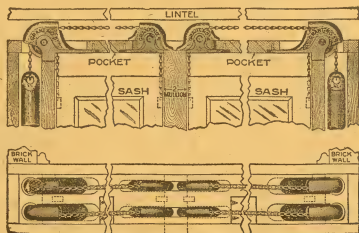
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Vol. XXXII., No. 46
November 14, 1917

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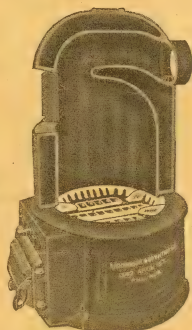
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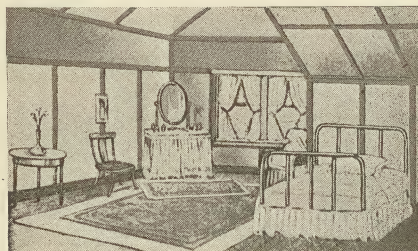
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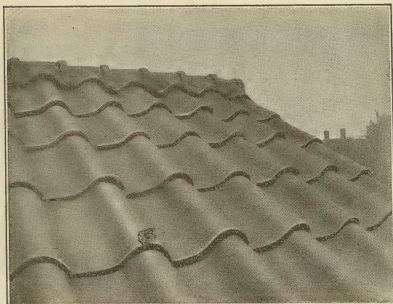
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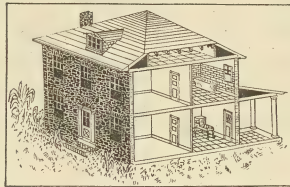
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These Documents have received the full approval of the Institute, through its Convention, Board of Directors and Officers. They are the outcome of nine years of continuous work by a Standing Committee on Contracts and Specifications. This Committee, comprising some of the ablest American architects, was assisted by the Institute's forty Chapters; advised by eminent legal specialists in contract law and aided by representatives of the Building Trade Associations of the United States. The forms have been officially approved by the National Association of Builders' Exchanges, the National Association of Master Plumbers, and the National Association of Steam and Hot Water Fitters.

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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural

VOLUME XXXII

Engineering and the Building Trades

PHILADELPHIA

November 14, 1917.

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As The Editor Sees It



ONE of the notable addresses at the recent convention of the Ohio State Association of Builders' Exchanges, was that delivered by Ralph P. Stoddard, secretary of the Ohio Builders' Supply Association, dealing with "Present and Prospective Cost of Building Material." Said Mr. Stoddard:

"It has been assigned to me to talk about costs of materials, present and prospective. That's just another way to introduce the subject of 'Build Now,' and to my mind it is almost a patriotic duty to boost for this movement that aims to keep conditions normal in the great building industry.

"People outside of the building business have not awakened to the fact that building construction is about the biggest single industry in the United States. In 1915 there was reported from 24 cities \$600,000,000 in new construction. This does not include the other millions spent in smaller towns and rural communities where records are not compiled. Neither does it include the road, bridge, sewer, sidewalk, underground and landscaping work that always go with city improvement and public allotments.

"Yet a banker said to me less than two weeks ago—'We have money to loan for business and industry, but none for building—we class building as extensions and we feel it our first duty to keep the going enterprises on their feet through these uncertain times.

THIS banker will loan money on stocks of goods, upon the stock certificates of manufacturing companies, because he has them classified as going industries. He can see the wheels go round and if appealed to by the merchant or manufacturer he will provide money to keep them moving. This condition, more than the price of building material, affects present conditions in the building industry.

"I am not going to say that conditions are not good—especially am I not going to say such a thing while in Akron where everything is running 'in high' with the accelerator wide open. I am told that there are thousands of people begging for homes, so we do not have to explain any slump here.

"There are similar conditions in Cleveland. Homes are being occupied before they are finished—that is literally true. One builder, who puts up from 100 to 150 homes a year, told me he never saw such a demand for homes. People move into a home as soon as one floor is finished and don't mind the carpenters and decorators going on with the work.

"Practically every live factory in that city is building a new plant or an addition, yet there is a prospect of a sharp falling off of building work during the winter unless the banks and building and loan associations resume construction loans. I am positive that the money stringency, not high prices of materials and labor, are responsible for any slack-

ing that may appear in the figures for the later months of the year.

* * *

NOW we will get down to the prices, because that is what the contractor wants to know about. He is a fiend for low prices—no matter how low they are he wants them lower, they tell me. As a matter of fact I believe that a lot of this talk about high prices and its killing effect upon business is 'indoor sports' on the part of the contractor. The fellows who talk of the high cost of material remind me of the Mississippi river steamboat Lincoln told about. It had a 5-foot boiler and a 7-foot whistle and when it blew the whistle it stopped the boat.

"Let us not waste any steam blowing about the high prices, instead boost the business by encouraging building. A single house that could be built in 1914 for \$3,000 can be built to-day for \$3,500 or less—the prices I mention are for brick and stucco. I am sure, however, that there is no greater difference in frame construction during the same period.

"In buildings using steel and concrete the increase is greater, as you know better than I do. But don't let the owner forget that the earning power of the building has increased correspondingly. In fact by what law could the prices of building materials be kept down while every other community in the country is increasing in cost?

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YOU know that from 1914 to the present time there has been an increase of 133 per cent. on coal; 115 per cent. on copper; 350 per cent. on steel products; 100 per cent. on canned goods; 3 4 per cent. on all labor; 100 per cent. on woollens; 68 per cent. on machinery; 61 per cent. on horses; 83 per cent. on feed; 100 per cent. on lard, and as much on butter and eggs; 93 per cent. on wheat.

"You now get for a dime a loaf of bread you can put in your vest pocket. The principal crops are 104 per cent. up. The paper the merchant wraps your groceries in and on which your newspaper is printed has advanced 82 per cent. since 1914. Beans—always standing on the cheap lunch counter now are way up among the luxuries and 75 per cent. higher than you ever heard of them being before. Booze is 200 per cent. up and the glass you drink it out of has been raised 80 per cent. The gasoline for your flivver costs you 70 per cent. to 100 per cent. more than it did when common brick were \$7 a thousand. Corn is up 50 per cent.; pork chops, 100 per cent.; coffee, 36 per cent. A dollar at market attracts about as much attention as a boy scout would at Chillicothe; and still there's a panic because builders' supplies show an average increase of about 30 per cent. The labor increase in the past year has been large and this enters into building costs in two ways—it is the basis for nearly all the advance in materials as it is the biggest item in manufacturing costs and it comes to bat again in construction work.

* * *

THERE have been advances in Cleveland ranging from 15 per cent. in builders' trade wages. Did you ever consider that practically every material that goes into building, especially the fire resisting materials, come out of the ground? Clay costs nothing per ton until labor is employed to dig it out, haul it to a mill, grind it, mould it, dry it, bake it and load it into wagons or trucks to be drawn to a job. The man who stands in his tracks and picks a brick and places it in a wall gets more for it than the manufacturer got for making that brick and hauling it to the job. And the ingredient of cement came out of the ground and was mixed with labor to produce the finished article. The same is true of lime, gypsum, stone, sand and all other building materials. As labor goes up, goods must go up—the manufacturer is not to blame; the dealer certainly is helpless in the matter.

* * *

WILL prices be lower? Can they be reduced unless the manufacturing and handling costs are reduced? In my opinion, nothing

less than a general panic will bring them back to old levels. The law of supply and demand unquestionably is at work as usual. If the demand falls off so sharply that there is an over-supply there will be reductions. The same has been the condition and is to-day. Plants that have an output of hundreds of carloads a day have been able to ship only a few or two cars a day on account of empty car shortage. The plants have their books covered with orders. They are under the same overhead and operating cost that there would be if they were shipping their capacity. Do you think they will reduce prices under these conditions? With a million men going to war, will labor be cheaper? What ground have we to look for lower prices for anything? Even government regulation doesn't seem to make living cheaper.

"Let us face the condition as it exists—the world is at war—every condition is unusual—wages never were so high before in the history of the country—there are no idlers.

"Bank resources are at the highest figure known—16 billion in the June report. Deposits in National banks are 18 billion, an increase of 2 billions in a year. All along the line, new records in every department of banking. The cities are prospering as never before. Look at Akron. It has the atmosphere of a Western town of the early gold days—it's bursting with growth. It is the same to greater or less degree wherever there is manufacturing.

"Farms are prospering beyond their expectations, with big crops to cash in at the highest prices they ever drew.

"These conditions will last while the war lasts and then think of the rebuilding and the enormous demand abroad for all materials.

"Don't waste time thinking about high prices—compared with all other things, building prices are not high. Get that idea in your mind. Tell it to the fellow with money to invest—talk up—not down. Don't waste brain making a big noise that you ought to be using to go ahead with."

* * *

JUDGE LOVETT'S "priority order," issued recently, prohibiting mill shipment of certain building materials serves to still further complicate a muddled situation. This order was intended, it is supposed, to give a freight preference to coal, which constitutes about 35 per cent. of all freight carried by railroads and in the Eastern districts to about 43 per cent. of the gross tonnage. Dr. George Adam, of Montreal, pointed out in the course of a recent address that while we have undoubtedly made great progress in munition making it is a fact that we are fur-

nishing but 8 per cent. of the munitions used by the Allies and that Great Britain is supplying 50 per cent., although dependent extensively upon woman labor.

* * *

WAGES are reaching a point at which there can be no complaint that the skilled mechanic is not getting his hire. The rates paid in the building trades in three cities are as follows:

RATE PER HOUR.

Philadelphia, Pa.—Masons, 60c; Bricklayers, 70c; Structural Iron, 70c; Plasterers, 70c; Lathers, 62½-70c; Tile Setters, 65-70c; Plumbers, 56¼c; Steam Fitters, 56¼c; Carpenters, 60c; Stone Cutters, 60-65c; Painters, 45c; Roofers, 56¼-50c; Cement Finishers, 50-55c; Pipe Coverers, 53¼c; Laborers, 25-37¼c.

Providence, R. I.—Masons, 65c; Bricklayers, 70c; Structural Iron, 67½c; Plasterers, 71¼c; Lathers, 50c; Tile Setters, 70c; Plumbers, 65c; Steam Fitters, 50c; Carpenters, 60c; Stone Cutters, 65c; Painters, 50c; Roofers, 50c; Cement Finishers, 65c; Pipe Coverers, 50c; Laborers, 35c.

Hartford, Conn.—Masons, 75c; Bricklayers, 75c; Structural Iron, 68¼c; Plasterers, 75c; Lathers, 62½c; Tile Setters, 75c; Plumbers, 62½c; Steam Fitters, 62½c; Carpenters, 62½c; Stone Cutters, 65c; Painters, 65c; Roofers, 68¼c; Cement Finishers, 75c; Pipe Coverers, 62½c; Laborers, 37¼c.

THE GREATEST COUNTRY.

(From the Ohio State Journal.)

According to an exchange, "Judicious Advertising," the United States is the greatest country in the world, and here are the figures: This country has—

- Six per cent. of the world's area.
- Five per cent. of its population.
- Thirty-three per cent. of its wealth, and produces:
- Seventy-six per cent. of the corn grown in the world.
- Seventy per cent. of the cotton.
- Fifty-nine per cent. of the copper.
- Forty-three per cent. of the pig iron.
- Thirty-seven per cent. of the coal.
- Thirty-five per cent. of the tobacco.
- Twenty-six per cent. of the silver.
- Twenty-four per cent. of the wheat.
- Twenty-one per cent. of the gold.

This is not boasting; it is statistics, which simply show what we are and not what we pretend to be.

Do you get "The Guide" regularly? You should. Better subscribe now, while you think of it, and keep in touch. The man who fails to get and to read carefully the trade paper of his chosen line, is missing a while lot of valuable data that should be at his command.

EDITORIAL NOTES

A conference was held recently in the Association of Commerce rooms, Chicago, to consider the advisability of organizing several local committees, to determine the facts regarding the present depressed building situation and to discuss ways and means for co-operation among the units of the construction industry and with the National Government, during the war and the period immediately following.

* * *

The movement for the alleviation of stagnation in building which is on foot in Chicago, under the auspices of the Chicago Association of Commerce, similar in character to that of the Marks committee of New York, together with like movements under consideration in other large industrial centers, may lead to a National Construction Advisory Board to co-ordinate the efforts of the various trade organizations.

* * *

The convention of the Ohio State Association of Builders' Exchanges, held in Akron, elected the following officers: Scott Porter, Akron, president; R. L. Watson, Columbus, first vice-president; V. D. Wolf, Mansfield, second vice-president; David Burnett, Cincinnati, third vice-president; Edward A. Roberts, Cleveland, secretary-treasurer; Clarence Metters, Columbia, assistant secretary.

* * *

Secretary E. A. Roberts, of the Ohio State Association of Builders' Exchanges, has been secretary-treasurer of the Cleveland Builders' Exchange for the past seventeen years. When he took hold of it the Exchange had a membership not exceeding 100; it now has 450 active and interested members, working in complete harmony and close co-operation.

* * *

One of the questions which has recently been taken up by the Michigan Society of Architects is a uniform cost and accounting system. At the October meeting the committee appointed to consider this question reported progress. Inquiries have been made to the licensed architects throughout the States as to the methods employed by them in estimating costs and keeping records. The committee believes that the adoption of a uniform system would raise the standard of the profession in the State and tend to establish better prices for services rendered.

* * *

Aside from Government work and factory construction new building is decidedly less active than at this time last year, says the "American Contractor." There is a disposition to defer speculative building for various reasons. Some of these reasons are founded on unwarranted conclusions regarding the future, while others are in the nature of very real difficulties of the present situation. Among the latter may be mentioned the diversion of a tremendous amount of capital into

strictly war channels. This is becoming increasingly apparent as the nation bends every effort toward financing the greatest war ever known. Another very potent influence for hesitation in launching new projects is the uncertainty of obtaining the necessary materials within a reasonable period of time. This condition prevails more in some sections of the country than in others.

* * *

After the war Europe will be obliged to execute the enormous work of restoration. With her normal peace-time industries demoralized, as they are, she will be obliged to secure American products for restoring her devastated country, until European industries have had time to regain their normal production. Europe has been devoting all her manufacturing energy toward the making of war supplies, and has abandoned during the war, the making of materials for building. It will be America's part to supply these materials. This added drain upon our supply will, through the operation of the law of supply and demand, tend to keep prices up for a considerable period after the war.

* * *

The history of previous wars has been that shortly after hostilities ceased there came a peace "boom" in business. Commodity prices advanced in accordance with general business. The Napoleonic wars are probably more comparable to the present conflict than any others, because of their widespread destruction of property and because of the large number of nations involved. Industrial conditions have changed since that time, but in spite of this the same fundamental economic laws were in operation then as now. During the 20 years of the Napoleonic wars, beginning in 1793 and lasting until 1814 with intermittent breathing spells, the price of English commodities advanced almost 100 per cent. Although political and economic factors intervened to influence business and depress prices temporarily during this period, the general trend was toward higher levels.

Shortly after the defeat of Napoleon at Waterloo in 1815 and the cessation of hostilities, a temporary decline in prices was checked by an upward movement. Business activity improved throughout the year 1816 and 1817 and prices held up well until the close of 1818, or three years after the war had ceased.

* * *

Carelessness in the design of its small homes is the charge recently made against St. Paul by an architect of that city. He emphasizes the need of more attention to the artistic and beautiful in the construction of city homes, and particularly of the smaller residences. In spite of the fact that artistic design does not necessarily mean expensive construction, the majority of our small homes continue to be built along hit-or-miss lines.

This man says that travelers returning from

Europe invariably bring with them glowing descriptions of the attractive small homes occupied even by the poorer classes, particularly in the country districts of France and England, by the side of which the small American home makes a sorry showing.

This difference is explained by the fact that people of the working class in European countries are willing to live in a few larger rooms, and by omitting many of the furbelows demanded by those in a similar condition here, can afford good, substantial, artistic construction.

* * *

That better co-operation between builders and insurance men would work to the advantage of all concerned, would reduce risks and produce more satisfactory structures, is the opinion of Clarence S. Pellet, of Chicago, chairman of the Executive Committee of the National Association of Insurance Agents, who spoke before the Minnesota agents, assembled in annual convention in St. Paul.

"It is already quite an accepted custom," he said, "for a builder to take his plans to the local rating office, where in most cases the insurance rate can be set before work has been started. In this way suggestions as to changes which will reduce the rate can be acted upon without additional expense.

"Too often, however, an architect is confident that he has provided for all contingencies, and on his advice the conference with the insurance men is omitted," said Mr. Pellet. "As a consequence, when the time comes to fix the insurance rate, it may be higher than necessary, or expensive changes may be required.

"The insurance agent has a definite service which he can render, and the local underwriter, as well as the rating board, should be given an opportunity to assist the builder."

* * *

Statistics just compiled by the National Lumber Manufacturers' Association show that during the 12 months ending July 31 the mills reporting to the association cut 155,602,000 feet of lumber and shipped 15,741,000,000 feet, of 8.9 per cent. more than production. Shipments the first 7 months of this year were 7.7 per cent. more than last year, with no increase in cut. During July this year 732 mills in all parts of the country and operating in all kinds of timber, cut 1,389,000,000 feet and shipped 1,566,000,000 feet, or 12.7 per cent. more than production. The cut in July this year was 1.3 per cent. less than July last year, with shipments 19.6 per cent. greater. During the four weeks just closed 320 Southern and Western mills have cut 606,000,000 feet of lumber, shipped 778,000,000 feet and accepted orders for 613,000,000 feet.

* * *

The war needs of the Nation must come first. The industrial life of the Nation must proceed without being excessively hampered. Let's not tie a ball and chain to American enterprise, and say, "Stay quiet until the war is over." Which is preferable—a surplus of railway cars or a shortage? Which do we want—soup kitchens or a shortage of labor? Which

do we want—plenty of money in circulation, or do we want the money withdrawn from the arteries of trade and hidden away in safe deposit boxes?

Neither Paris nor Berlin has suspended building operations during the war. Why should we?—'Improvement Bulletin.'

Temporary scaffolds are responsible for an astonishing number of accidents. The fact that as a rule they are only to be used for a short space of time seems to be responsible in many cases for their being rather carelessly put together. Too great care cannot be exercised in erecting scaffolds. Only material in perfect condition should be used and before men are allowed to work upon any scaffold it should be thoroughly inspected and, if possible, tested in some manner in order to make sure that it is perfectly safe for men to work upon and that it will safely carry any load which may be imposed upon it.—'Accident Prevention Bulletin.'

The Aborn Steel Company is now occupying its new warehouse and office building at 22 Clark street, New York, where stocks of cold drawn and rolled steel products, shafting, drill rods, music wire, high-speed carbon tool and alloy steels, etc., will be carried. Branch offices are also maintained at Rochester, N. Y., and Philadelphia. J. T. Slingsby is president and treasurer; H. Ross Slinsby, vice-president; J. Ciegerich, secretary, and R. W. Pilger, assistant secretary of the company.

Louis J. Horowitz, president of the Thomp-

son-Starrett Company, of New York, has been appointed Director of Foreign Relief of the American Red Cross. Mr. Horowitz, who has volunteered to serve the Red Cross without compensation, will make his long experience available to the country in this way in acting as a connecting link between the American Red Cross Commission abroad and the organization in the United States.

D. J. Murphy, formerly in the New York sales office of the American Steel and Wire Company, has resigned to become manager of sales of the West Leechburg Steel Company, of Pittsburgh, in charge of New York and New England territory, and will have his offices at 50 Church street, New York.

Charles Proner has severed his connection with the Smith & Hemenway Company, tool manufacturers, at 261 Broad way, New York City, to join the staff of the Wales Advertising Company, 110 West Fortieth street. In his new position, Mr. Proner will continue to personally handle the advertising of Smith & Hemenway.

The Empire State Steel Products Company, Park Row Building, New York, has been reorganized to conduct a general business in iron and steel products, scrap iron and metals, rails, pipe and new and used machinery. M. D. Adelson is president; James P. Tounhill, vice-president and general manager; Robert G. Jeffery, secretary and treasurer, and Albert R. Bergstrom, assistant manager.

the greatest opening possible for ventilating purposes; when closed, it must have good weathering qualities without the use of weather strips; it must be easily opened and closed by those who must live with it; it must be so well designed and so substantially built that it will be largely depreciation-proof and capable of fulfilling its many functions for an indefinite period, with the minimum of attention and upkeep.

Prior to 1906 the Underwriters' rulings on fire retardant windows were largely arbitrary and based on assumptions rather than on known facts. But in 1906 a more definite standard was created, based on actual performances under the fire test. Without going too much into the detail of these Label Service tests, it may be said stand without failure, exposure for one hour in a gas combustion chamber at 1,800 degrees Fahr.; after which it must withstand the effects of a stream of water at 60 lbs. pressure from a ¾-inch nozzle.

Label Service deals with a window only as a fire retardant, and has nothing to do with its functions as a window. It is simply a guarantee that one window of the type purchased by a buyer has been approved by the Underwriters' Laboratory after certain fire retardant tests, and that every window of that same type which bears the label has been locally inspected and found to conform with the window tested, as to design, construction and weight of metal.

Each label has its individual number, which is recorded at Chicago, with the description and location of the window to which it is attached. And in case of failure of one of these windows, this record can be looked up and responsibility placed. The Label Service is an excellent thing, but by no means infallible. For instance, while it requires a construction giving

1-inch bearing for the glass, it leaves it to local inspectors to see that this demand is fulfilled. It is a safe guide to fire protection, because a window which cannot pass the tests of the Label Service cannot be considered as a dependable fire retardant. But while it is a guarantee of good fire retarding qualities, it is no guarantee of a good window.

It is to be regretted that there is no explicit definition of a fire retardant window. In a sense and up to a certain point, a window of slow-burning wood carrying wire glass is a fire retardant. Going up a little in quality, we come to the metal-kalameined (metal-covered wood) window with wire glass, which is still more of a fire retardant. Next in order comes the window of structural steel members carrying wire glass—also fire retardant up to a certain point. Last comes the hollow metal window with wire glass, which has proved to have a fire resistant of the other types.

WHAT "WINDOW EFFICIENCY" MEANS

Character of Window Work May Be a Deciding Factor in Sale of Building

By S. H. Pomeroy*

Fire prevention is not a question of getting something that is simply better than no protection at all. It is getting the utmost in the way of fire protection. And, in the case of fire retardant windows, that means wire glass carried in hollow metal sash and frames of sound and substantial construction.

Wire glass, with all its virtues, is effective as a fire barrier only so long as it is intact and in place. Then the window construction is seen in its proper light—not as a thing secondary to the glass, but as something of more importance even than the quality of the glass. Sash and frames must have a resistance to fire at least equal to that of the glass, if the window is to be considered as a fire retardant—which

statement determines what we may call the lower limit of window quality.

The efficient fire retardant window is both a window and a fire retardant, and that it must not fail of its functions as a window simply because it is a fire retardant—and vice versa.

As a fire retardant, the window must offer the maximum resistance to the passage of fire through the opening it protects; it must maintain this fire resistant quality up to the point of physical destruction; without being structurally weak, it must still permit a fireman, in emergency, to make a passage through it; it must be so devised or equipped as to close automatically, should the outbreak of a fire find it open; its hardware must be of a character and quality that it will not deteriorate with time.

Considered now as a window, this fire retardant must afford the largest possible percentage of lighting area; it must afford

*Excerpts of paper presented at the June, 1917, meeting of the New York Chapter of the National Fire Prevention Association.

Structural Steel Windows.

About the best that can be said of the slow-burning wood construction with wire glass is that it is better than a window of untreated wood carrying wire glass. Just how much better can be determined only when the adjuster fixes the damages—at which time the information is of little value to the one who bears the loss.

The metal-kalamein window goes a step further in its fire qualities. It is dependent for its mechanical strength upon the wood structure underlying the veneer of metal—and no one knows at any time just what the condition of that wood is.

The structural steel window deserves more serious consideration. There never was a better window made for the particular purposes for which it was originally intended, viz., to provide the maximum of lighting area in factory construction. This use of a lattice of light stock structural shapes carrying a multitude of small panes of plain glass, permitted a strong and durable construction to be made at a remarkably reasonable cost. And ventilation was easily provided by making a portion of this lattice work movable.

So successfully did this structural window fulfill the conditions for which it was designed that it really brought about a new form of factory construction in which the wall area is practically all window area. But, like a number of good things, it has been overdone and burdened with responsibilities for which it was never intended or adapted.

Substitution Not Effective.

Merely to substitute wire glass for plain glass in a structural window will not make it an effective and dependable fire retardant. True, it will be composed of non-burning materials; but it by no means follows that it will, as a unit structure, maintain its integrity under fire temperatures and fire streams.

Merely to substitute wire glass for plain glass in a structural window will not make it an effective and dependable fire retardant. True, it will be composed of non-burning materials; but it by no means follows that it will, as a unit structure, maintain its integrity under fire temperatures and fire streams.

The insurance rules require that the mullions between adjoining approved fire retardant windows shall be of heavy steel encased in a fire-proofing material. Contrast this, from the standpoint of safety and dependability, with the common practice in structural window work where great elevation areas are composed entirely of this flimsy steel-and-glass structure. There is, indeed, grave danger that over-enthusiasm on the merits of the structural window may lead to its use in such large areas that the safe relation between window space and pierage-and-curtain-wall space may be lost, and a building designed

which, when the windows fail under fire, will be not only gutted, but actually destroyed.

Furthermore, the structural window offers no opportunity for the passage of a fireman when necessity demands. Its movable portion is usually high up and out of reach. Its individual glass openings are too small to give passage to a man. And the metal structure is too solid for a fireman to smash an opening through with his axe.

The action of the hollow metal wire glass window, as a fire retardant, is that of a heat insulator preventing the transmission of a destructive heat from the fire-exposed side to the side not so exposed. Its dependability as a fire retardant rests upon two things, viz., its heat-insulating qualities, and its ability to maintain its physical integrity under the fire test.

The factors involved in the tests prescribed by the Underwriters' Laboratory to secure Label Service are: thickness of metal; method of securing members in place; provision for expansion and contraction; bearing of glass in sash; rigidity of structure in resistance to distortion under heat.

It will be evident from this that the insurance authorities concern themselves only with the fire protective properties of the window and that—so long as Laboratory requirements are satisfied—"any old thing" in the way of a window can pass. And this is most unfortunate.

It is commercially possible to make a fire retardant window that is to all practical intents perfect both as a fire barrier and as a window. But until recently it was quite impossible to sell a window—the market for it did not exist, except in the visions of the best window makers.

The obstacle which window manufacturers formerly encountered, that which delayed progress in window making, was the apathy of the architects and engineers and owners having to do with the specifications and purchase of fire retardant windows. To these benighted dwellers in darkness, all Label windows looked alike. So long as the Underwriters' Laboratory had taken responsibility for fire retardant quality, why worry about the merely incidental features of window quality?

And, be it sadly confessed, most window manufacturers acquiesced in this apathetic state of affairs, and made windows no better than they need be, to "get by." A few, however, had broader visions of window efficiency. And to-day manufacturers can furnish windows just as good as architects and engineers and owners are willing to pay for. And architects and engineers and owners are more and more recognizing the fact that there are degrees of quality in fire retardant windows as in other items of building equipment.

I cannot resist the temptation here to pay my respects to the practice of weather-

stripping. It is, beyond question, useful as a corrective to bad conditions already existing. But no greater mistake can be made than to install cheap or inefficient windows with the idea of weather-stripping them later. The fact is that the cost of a cheap window plus the cost of any effective weather strip is greater than the cost of a good window that will not need weather-stripping.

Let us, at this point, give a little further thought to the effect of window efficiency on the rental value of a building. For, of course, the ideal of every landlord is to keep his building filled with contented tenants, and to keep down the expense of operating and maintaining his building. Window efficiency is a big factor in all this, which architect or engineer is expected to consider in the plans and specifications.

As contributing to the contentment of tenants consider what we may call the "comfort capacity" of the windows. This covers: easy manipulation and freedom of opening and closing; silence, as contrasted with the rattle and squeak of poor construction; comparative dust-tightness, as contributing to cleanliness inside; comparative weather-tightness, as preventing coldness and draughts. Tenants appreciate these good qualities—are willing to pay for them—and will go where they can be had.

LESS MARBLE FROM ITALY.

Consul B. H. Carroll, located at Venice, Italy, reports to the Department of Commerce that the marble quarries of Italy have heretofore made large shipments of marble to the United States, but that shipments to this and other countries are diminishing because of high freight rates and "high customs duties." We are glad to know this. We have been sending about a million dollars a year to Italy to pay for marble, and went under that amount only after the war began. Mr. Carroll says that the wages of marble sawyers run from 558 to 68 cents and of finishers from 87 to 97 cents per day. Perhaps that accounts in part for the importation of Italian marble. At any rate, says an exchange, we are thoroughly convinced that anyone who wishes to buy marble "made in Italy" can afford to pay a stiff import duty. The Democratic administration cut the import duty a little—about 15 per cent.—but the war prevented our learning by experience just what the effect of that cut would be. In 1914, while the reduced rates were in effect, all building operations were at a standstill and people were not buying marble produced in either Italy or America. This is shown by the report of Secretary Redfield on the marble industries of Vermont. That report shows that the number of wage earners in the marble industry in that State increased 73 per cent. from 1899 to 1904, and 28 per cent. from 1904 to 1909, but fell off 13 per cent. in 1914 as compared with 1909.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Engine House and Machine Shop, Erie avenue yard, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Twelfth and Market streets, Philadelphia. Reinforced concrete, steel and brick, 1 story, 16 stalls, 200 feet circumference; machine shop, 1 story, 156x216 feet, J-M roof, cement and pine floors, rolled steel sash and skylights, fire doors, iron stairs, ornamental iron work, hollow tile, roof ventilators, waterproofing, stone foundations, wire work (heating and lighting reserved). Owners taking bids, due November 26th. Roydhouse-Arey Co., 112 N. Broad street; W. W. Anstine & Co., 1218 Filbert street; J. Sims Wilson Co., 1125 Brown street; F. W. Van Loon, Denckla Building; Wark-Yardley Co., 1237 Filbert street; E. A. Havens & Co., 845 North Nineteenth street; Irwin & Leighton, 126 North Twelfth street; A. L. Carhart, Hale Building; Wm. R. Dougherty, 1608 Sansom street; Standard Construction Co., 1713 Sansom street; H. E. Baton, 1713 Sansom street; Mitchell Bros., 2125 Race street, are figuring.

Sheds (2), Highland avenue, Chestnut Hill, Pa. Architect, Wm. H. Cookman, Broad Street Station, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Frame, slate roof, plank floors, 350 feet each. Plans in progress. Owners will be ready for bids in about one month.

Stores and Apartments (7), 5301-03-05-07-09-11-13 Germantown avenue, Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Bashavsky & Winegrad, care of I. Seidman, 1324 South Fourth street, Philadelphia. Stone foundations, brick, 3 stories, 17x73 feet, slag roof, hot water heating, electric lighting, tile work, metal lath, hardwood, maple and composition floors, hollow metal skylights, tile work, flush bulks, ornamental iron work, roof ventilators, metal ceilings. Plans about completed. Owners, care of I. Seidman, will take sub-bids in a few days.

Store and Dwelling (alts. and add.), changing to club house southwest corner Sixth and Wilder streets, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Brotherhood of Carpenters, 1134 South Fifth street. Brick, 3 stories, 17x60 feet, consists of general alterations for club house, slag roof, hot water heating, electric lighting, marble work, fire escapes, maple floors, hollow tile, office partitions. Plans about completed. Owners will take bids in a few days.

Laboratory, Tacony, Philadelphia. Archi-

tect, Thos. B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corporation, Tacony, Philadelphia. Brick, stone foundations, 2 stories and basement, 25x32 feet, slag roof, steam heating, electric lighting, cement and wood floors. Plans in progress. Architect will take bids in a few days.

Time, Office and Dispensary Building, Tacony, Philadelphia. Architect, Thos. B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corporation, Tacony, Philadelphia. Brick, stone foundations, 1½ stories, 73x32 feet, slag roof, steam heating, electric lighting, tile work, cement and wood floors. Plans in progress. Architect will take bids in a few days.

Kiln and Lumber Shed, Venango and Penna. RR., Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, A. Schoenut Co., Alams and Sepviva streets, Philadelphia. Brick, steel and concrete, 1 story, 41x58 feet; shed, 53x112 feet, slag roof, cement floors, rolled steel sash (electric lighting and sprinklers reserved). Architect taking new bids. Geo. Kessler Cont. Co., Drexel Building, and Philip Haibach Cont. Co., Twenty-sixth and Thompson streets, are figuring.

Warehouse (add.), 710-14 South Second st., Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, S. Sklaroff & Sons, on premises. Brick, steel and concrete, 6 stories, 22x100 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, concrete and composition floors, metal lath, waterproofing. Architect taking bids, due November 19th. Doyle & Co., 1519 Sansom street; H. E. Baton, 1713 Sansom street; Wm. R. Dougherty, 1610 Sansom street; Irwin & Leighton, 126 N. Twelfth street, are figuring.

Store, Apartment and Garage (alts.), Lindenwood and Market street. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Wm. H. York, Fifty-third and Ludlow streets, Philadelphia. Brick, 2 stories, addition 10x16 feet, slag roof, cement floor, hot water heating, combination lighting, metal ceilings, and general changes from present store and apartments. Owners will sub-let.

Store and Dwelling, southeast corner Hancock and South streets, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin sts., Philadelphia. Owner, Alexander Lieberman, Widener Building, Philadelphia. Stone foundation, brick, 3 stories; 25x74 feet, slag roof,

yellow pine and hardwood floors, hot water heating, electric lighting, tile work, marble trimming, flush bulks, metal ceilings, metal lath, plate glass. Plans in progress. Owner will be ready for bids in about one week.

Garage, 1526-28-30 Passyunk avenue, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, John Flaherty, care of architects. Brick, 1 story, 45x147 feet, slag roof, steam heating, electric lighting, cement floors. Plans completed. Architects will take bids in a few days.

Store Building, 1526-30 Vine street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 55x80 feet, slag roof, electric lighting. Architect has received bids.

Marine Barracks, Navy Yard, League Island, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, brick and stone, 3 and 3½ stories, 280x54 feet, (3) wings, 48x39 feet, slate roof, asphalt and composition floors, steam heating, electric lighting, waterproofing, iron stairs, ornamental iron work, fire doors. Low bidders: Price Cont. Co., Baltimore, Md., \$227,000, time, 325 days; W. W. Anstine & Co., 1218 Filbert st., Philadelphia, \$237,314, time 360 days; Wm. R. Dougherty, 1610 Sansom street, Philadelphia, \$238,441, time 270 days.

Reservoir, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and steel, 2,000,000 gallons capacity. Plans and specifications may be secured from Navy Yard, League Island, Philadelphia, or from Chief of Bureau, Washington, D. C. Owners ready for bids, due November 26th at 11 A. M.

Officers' Quarters and Fuse Shop, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Col. Geo. Montgomery, Frankford Arsenal. Reinforced concrete, brick and stone, 3 stories, 57x19 feet, and 3 stories, 61x22 feet, slate roof, vacuum heating, electric lighting, tile work, rolled steel sash, hollow metal skylights, fire and kaamein doors, cement, oak and maple floors, metal lath, roof ventilators, stone foundations, waterproofing. Owners taking bids, due November 20th. Wm. R. Dougherty, 1610 Sansom street; W. W. Anstine Co., 1218 Filbert street, and Ketcham & McQuade, 1029 Brown street, are figuring.

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Military Roads

*Resolution Adopted by Chamber of Commerce of the United
States in Convention at Atlantic City, September 21, 1917:*

WHEREAS, It is essential that all the transportation facilities of the nation should be brought to the highest state of efficiency in order that foodstuffs may be moved most economically from the farm to the market, that manufactured products be moved at the lowest cost from the factory to the consumer, and

WHEREAS, The Public Highways offer a good, prompt and economical means to supplement transportation by rail and water, therefore

BE IT RESOLVED, That the prompt improvement of our Public Highways is important and should be forwarded in every proper way.

Realizing the transportation congestion crisis, this was one of the most important resolutions passed by the Chamber of Commerce of the United States.

Motor trucks are ready at hand; the roads of the nation must be immediately developed and improved.

A Federal Highway Board is urgently needed.

This resolution deserves wide publicity—and to help we are publishing it throughout the country in place of our scheduled advertisements.

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Residence, Sixth street, north of Cheltenham avenue, Philadelphia. Architect, J. Wilmer Thompson, 706 South Sixtieth street, Philadelphia. Owner, Harry Louis Peck, Sixth street, north of Cheltenham avenue. Stone, brick and stucco, 2 stories, 41x31 feet, tile roof, hot water heating, electric lighting, tile and marble work, oak and pine floors, hollow tile, metal lath, stone foundations, waterproofing and dampproofing. Architect taking bids, due November 24th. Thos. C. Trafford, 1613 Sansom street; F. L. Hoover & Son, 1023 Cherry st.; R. C. Ballinger & Co., 218 N. Thirteenth st., and Albert Zellfelder, 151 S. Broad street, are figuring.

Marine Barracks, Navy Yard, League Island, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, brick and stone, 3 and 3½ stories, 280x54 feet, three wings 48x39 feet, slate roof, asphalt and composition floors, steam heating, electric lighting, waterproofing, iron stairs, ornamental iron work, fire doors. Owners taking revised bids, due November 21st. Warren-Moors & Co., Colonial Trust Building;

Wm. R. Dougherty, 1610 Sansom street; W. W. Anstine & Co., 1218 Filbert street; McCloskey & Bahls, 1620 Thompson street, all of Philadelphia, and the Price Const. Co., Baltimore, Md., are figuring.

Residence (alts. and add.), 1728 S. Broad street, Philadelphia, \$7,500. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owners, Augustine Social and Beneficial Society, care of architects. Brick, rear addition, 2 stories, 20x21 feet, side addition, 2 stories, 32x8 feet, slag roof, electric lighting, hardwood floors, slate roof, dumbwaiters, bar fixtures, hollow metal skylights (plumbing and hot water heating reserved). Architects taking bids, due as soon as possible. Raith Const. Co., 304 Master street, Philadelphia, are figuring.

Office Building (alts. and add.), 919 to 923 South Thirteenth street, Philadelphia. Architects, H. W. Castor & Stanford B. Lewis, Stephen Girard Building. Owners, Main Belting Company, on premises. Brick, stone and steel, 3 stories, 45 feet front, general reconstruction from foundations, changing three residences to office building, slag roof, electric lighting. Owners are taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

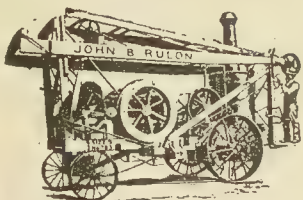
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Residences (2) (alts. into Garage), 2623-25 W. Huntingdon street. Architect, private plans. Owner, Leo. F. Smith, 2600 Huntingdon streets, Philadelphia. Brick, 1 story, 30x100 feet, slag roof, cement floors (heating, electric work, plumbing and gasoline storage system reserved). Contract awarded to H. E. Sweger, 4435 N. Uber street, Philadelphia.

Cabin (D5), Gray's Ferry road (at Forty-ninth Street Yard), Philadelphia. Architects, M. of W. Dept., room 361 Broad Station, Philadelphia. Owners, Penna. RR. Co., Broad Street Station, Philadelphia. Brick, hollow tile, steel and stucco, 2 stories, 18x14 feet, Rex strip shingle roof, pine and cement floors, hollow tile, metal lath, steam heating (lighting and plumbing reserved). Contract awarded to John V. Speth & Co., 1714 Sansom st.

Stable (fire repairs), 3738 Market street, Philadelphia, \$2,500. Architect, private plans. Owner, M. Sullivan, on premises. Consists of general fire repairs, mill work, painting, slag roof, cement floors. Contract awarded to Raith Const. Co., Inc., 304 Master st.

Store Building, 1627 Chestnut street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owners, Josephine Le Fevre Co., 329 North Fifteenth street, Philadelphia. Brick and Indiana limestone, 3 stor

ies, 18x155 feet, slag roof, maple floors, steam heating, electric lighting, metal lath, hollow metal skylights, metal bulks, metal ceilings, roof ventilators. Contract awarded to D. Henwood, 1509 Wood street, Philadelphia.

Factory Building No. 1, 114 North Front street, Philadelphia, \$20,000. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owners, Geo. D. Wetherill & Co., on premises. Consists of reconstruction of building damaged by fire, brick, steel, concrete, stone foundations, 4 stories and basement, 60x38 feet, slag roof, cement, maple and pine floors (steam heating, electric work, plumbing, elevator and sprinklers reserved by owners), rolled steel sash, hollow metal sash and skylights, fire doors, metal lath. Contract awarded to H. H. Wehmeyer, 1004 W. Lehigh avenue, Philadelphia.

Elevated Stations, contracts Nos. 533-34 (4) buildings, Frankford Elevated, Philadelphia, \$92,100. Architects, Dept. of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Dept. of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick and concrete, stone and terra cotta, 2 stories, 60x20 feet, tile and slag roof, cement floors, hollow tile, marble, tile and terrazzo work, rolled steel sash and skylights,

**SCALES
AND
VALVES**

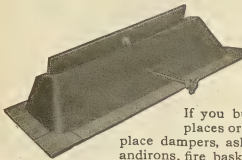
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hollow metal sash and doors, fire doors, iron stairs, cement floors, hollow tile, safety reads, roof ventilators, metal ceilings, wire work, ornamental iron work. Contract awarded to Standard Const. Co., 1713 Sansom street.

Coal Pocket, Erie avenue and Laurence st., Philadelphia, \$170,000. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Reinforced concrete. Contract awarded to Roberts & Schaefer, Chicago, Ill.

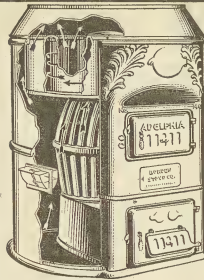
Garage, 2818-20 Belgrade street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, W. T. Gould, on premises. Brick and stone, 2 stories, 32x72 feet and 32x28 feet, slag roof, steam heating, electric lighting, cement and plank floors, gasoline storage system. Contract awarded to Albert Schmidt, 2449 N. Hancock street, Philadelphia.

Fire Tower, 114 North Front street, Philadelphia, \$4,000. Architects, King & Wightman, 1513 Walnut street, Philadelphia. Owners, George D. Wetherill Co., on premises. Brick, 4 stories, 22x15 feet, slag roof, cement floors. Contract awarded to H. H. Wehmeyer, 1004 West Lehigh avenue, Philadelphia.

Store Building (fire repairs), 150 North Fourth street, Philadelphia, \$2,500. Architect, private plans. Owners, Schrack & Co., 152-58 North Fourth street, Philadelphia. Consists of mill work, painting and general repairs. Contract awarded to H. H. Wehmeyer, 1004 West Lehigh avenue, Philadelphia.

Hotel (fire repairs), Seventh and Dauphin streets, Philadelphia, \$4,400. Architect, private plans. Owners, Washington Hotel, P. Oliver Derr, proprietor, on premises. Consists of repairs to basement and first floor, consists of timber joists, yellow pine and maple floors, new stairs. Contract awarded to Harry Gill, Jr., 2515 Germantown avenue.

Residence, Erie, Pa. Architect, H. Rex Stackhouse, 129 South Fifth street, Philadelphia. Owner, John J. O'Brien, Erie, Pa. Hol-



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low tile, 2½ stories, 26x42 feet, slate roof, hot water heating, electric lighting, hardwood floors, tile work. Contract awarded to A. Schroeder Estate, Erie, Pa.

Parochial School, Earp and Orianna streets, Philadelphia, \$8,000. Architect, P. Kuhn, 3058 North Eighth street, Philadelphia. Owners,

St. Casimir's R. C. Church, Rev. J. Kanlakis, 333 Wharton street, Philadelphia. Brick, second story addition, 85x82 feet, slag roof, steam heating, electric lighting, metal lath, roof ventilators, terrazzo work, concrete floors. Contract awarded to John Engle, Fifth and Indiana avenue, Philadelphia.

PENNSYLVANIA

Construction News

Garage and Apartment, Eddystone, Pa. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Berlingieri & Anastasi, 1633 South Iseninger street. Stone foundations, 2 stories, 34x25 feet, slag roof, hardwood and cement floors, steam heating, electric lighting, kalamein doors, gasoline storage system, metal ceiling. Owners will take sub-bids on garage and apartment. Building of (5) dwellings postponed indefinitely.

Summer Residence, Trevos, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, J. Sidman Selby, care of architect. Frame, 2 stories, 21x28 feet, shingle roof, pine floors. Plans about completed. Will take bids in about one week.

Residence and Garage (remodeling), Merion, Pa. Architects, Druckenmiller & Williams, 1535 Chestnut street, Philadelphia. Owner, Chas. P. Vaughn, 5911 Overbrook avenue, Philadelphia. Brick, plastered, 2½ stories, 57x56 feet, wing 48x27 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Architect taking bids, due November 21st, from F. L. Hoover & Son, Inc., 1023 Cherry street; Harry Gill, Jr., 2515 Germantown avenue; Graham-Campion Co., Otis Building; E. J. Hadden, Finance Building; W. John Stevens, Inc., Wynecote,

Pa., and M. W. Young, Overbrook, Pa.

Department Store and Moving Picture Theatre, Coatesville, Pa. Architect, not selected. Owners, I. Braunstein & Co., First and Main streets, Coatesville, Pa. Brick and concrete, 3 stories, 71x100 feet. Work contemplated.

Bungalow, Coatesville, Pa. Architect, L. Z. Slawter, Coatesville, Pa. Owner, Harry A. Nichols, Coatesville, Pa. Stone, 1½ stories, 28x40 feet, shingle roof, pine floors, hot air heating, electric lighting, dampproofing. Plans completed. Owner will build.

School Building, Wyomissing, Pa., \$60,000. Architect, not selected. Owners, School Board of Wyomissing, Wyomissing, Pa. Work contemplated.

Coal Transfer Trestle, Rutherford, Pa. Architect, Samuel T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Phila. & Reading RR. Co., Lebanon Valley Branch, Harrisburg Division, Reading Terminal, Philadelphia. Concrete, steel and lumber, 94 feet long. Owners, care Samuel T. Wagner, Twelfth and Market streets, Philadelphia, have received bids.

Residence (alt. and add.), Pinebrook, Paoli, Pa. Architect, Henry Wilhem Wilkinson, 15 W. Thirty-eighth street, New York City. Owner, Arthur G. Dickson, Township line, Paoli,

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Pa. Brick and stucco, 2 stories, 28x20 feet, shingle and tin roof, oak and pine floors, tile and marble work, hollow tile, metal lath, stone foundations (heating, lighting and plumbing reserved). Owner has received bids.

Residence, Paoli, Pa. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Owner, name withheld. Stone, 3 stories. Plans in progress. Architects will take bids in about one week.

Residence, Springfield, Pa., \$8,000. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Thomas G. Allen, 104 South Sixty-second street, Philadelphia. Stone, 2½ stories, 32x42 feet, slate roof, hardwood floors, electric lighting. Plans in progress.

Residence and Garage, Elkins Park, Pa. Architect, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Gustav A. F. Gentzsch, southwest corner Fifteenth and Wallace streets, Philadelphia. Hollow tile, 1½ stories, 50x70 feet, shingle roof, vapor heating, electric lighting, hardwood floors. Plans in progress. Architects will be ready for bids in about two weeks.

School, Junior High, Nineteenth and Chestnut streets, Harrisburg, Pa. Architect, L. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, City of Harrisburg, care of School Board, 121 Chestnut street, Harrisburg, Pa. Brick, 3 stories, 170x190 feet, composition roof, steam heating, electric lighting, tile work, hollow tile, metal lath, hollow metal skylights (plumbing, heating, electric wiring and ventilators separate bids). Owners taking bids, due November 23d at 3.30 P. M.

Factory (alt.), "A" Building, South Bethlehem, Pa., \$10,000. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem, Pa. Brick, 1 story, 120x210 feet, consists of general interior and exterior alterations, steam heating, electric lighting. Plans in progress.

Pay Station for Ammunition Plant, South

Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem, Pa. Frame, 1 story, 27x44 feet, J. M. Regal roof, pine floors, steam heating, electric lighting. Owners taking bids, due as soon as possible. Ochs Const. Co., and Butz & Clader, both of Allentown, Pa., and R. S. Rathbun, Bethlehem, Pa., are figuring.

Residence, Easton, Pa., \$14,000. Architect, E. H. Wenzelberger, Easton, Pa. Owner, H. G. Tomblor, Jr., Easton, Pa. Frame, 2½ stories, 35x60 feet, tile roof, hot water or vapor heating, electric lighting, tile and marble work, hardwood floors. Architect taking bids, due as soon as possible. A. P. Smith, Easton, Pa., is figuring.

Residence, Wilson Township, Pa. Architect, Wm. Michler, Drake Building, Easton, Pa. Owner, Albert M. Pepper, Wilson Township, Pa. Brick and stucco, 2½ stories, 28x33 feet, tile roof, hot water heating, electric lighting, hardwood floors. Architect taking bids, due November 20th. Asa P. Smith, A. A. Bechtel, and Wm. Snyder, all of Easton, Pa., are figuring.

Houses (20), Allentown, Pa. Architect, private plans. Owner, Charles Hunsicker, Allentown, Pa. Brick and concrete block, 2 stories, 14x30 feet, slag roof, pipeless heater or steam heating, pine floors, electric lighting. Owner will sub-let.

Store Building, Allentown, Pa. Architect, J. W. Reilly, Buckley Building, Allentown, Pa. Owners, Perkin & Aronsky, Allentown, Pa. Brick, 2 stories, 19x50 feet, slag roof, city-steam heating, electric lighting, flush bulks, pine floors. Owners taking bids, due as soon as possible. Ochs Const. Co., Butz & Clader, and Geo. Perkins, all of Allentown, Pa., are figuring.

Residence (alt. and add.), Bethlehem, Pa. Architect, J. M. Green, Bethlehem Trust Building, Bethlehem, Pa. Owner's name withheld. Brick and stucco, 2½ stories, 30x33 feet, hot

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water heating, electric lighting, hardwood floors. Plans in progress.

Double Houses (3), Bethlehem, Pa. Architect, J. M. Green, Bethlehem Trust Building, Bethlehem, Pa. Owner's name withheld. Stucco and hollow tile, 2½ stories, 24x56 feet, slate and shingle roof, hot air heating, electric lighting, hardwood floors, hollow tile. Plans completed. Owner will build.

Garage, Bethlehem, Pa. Architect, J. M. Green, Bethlehem Trust Building, Bethlehem, Pa. Owner's name withheld. Brick and hollow tile, 1 story, 33x36 feet, slate roof, electric lighting, concrete floors. Plans completed. Owner will build.

Stores and Theatre, Bethlehem, Pa. Architect, E. C. Horn Sons, 1476 Broadway, New York City. Owners, Kurtz Bros., Bethlehem, Pa. Concrete, brick and terra cotta, 2 stories, 120x95 feet, composition roof, steam or vapor vacuum heating, electric lighting, pine and composition floors, tile and marble work, rolled steel skylight, fire doors, store fixtures, fire escapes, metal lath, metal weather strips. Owners sub-letting.

Theatre, Bethlehem, Pa. Architects, E. C. Horn Sons, 1476 Broadway, New York City. Owners, Kurtz Bros., Bethlehem, Pa. Concrete, brick, terra cotta (fireproof construction), 120x120 feet, composition roof, steam or vacuum heating, electric lighting, tile and marble work, rolled steel skylights, fire doors, store fixtures, fire escapes, composition and pine floors, metal lath, metal weather strips. Owners are sub-letting.

Residence, Merion, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner's name withheld. Stone, 2½ stories, 35x90 feet, tile roof, hot water heating, electric lighting. Plans in progress. Architect will take bids in about two weeks.

Bank (alt. and add.), Ashland, Pa. Architect, Benj. R. Stevens, 1737 Filbert street, Philadelphia. Owners, Ashland National Bank, Ashland, Pa. Limestone, brick and stucco, 1 story and mezzanine floor, 44x42 feet, tin roof, composition floors, hot water heating, electric lighting, hollow metal sash and skylights, bank fixtures. Architect is taking sub-bids on all lines.

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he sits down to plan how to get money with-
out earning it.—Horace Greely.

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Pennsylvania Contracts Awarded

High School, Chester, Pa. Architect, Clyde S. Adams, 1509 Arch street, Philadelphia. Owners, Board of Education, Geo. Mitchell, chairman, Hoskins Building, Fifth and Welsh streets, Chester, Pa. Stone and reinforced concrete, 4 stories and basement, 240x115 feet, slate, J-M or Barrett roof, salt glazed brick, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamén doors, hollow tile, metal lath, safety treads, roof ventilators, dampproofing, iron stairs, ornamental iron work (vacuum heating, plumbing, electric work, ventilating and furniture reserved). Contract awarded to John R. Wiggins Co., Otis Building, Philadelphia.

Twin Residences (10), Langhorne, Pa. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, North American Lace Co., Eighth and Allegheny Avenue, Philadelphia. Frame, cement, stucco, 2 stories, 20x40 feet, J-M roof, hot air heating, combination lighting, yellow pine floors. Contract awarded to Harry Brocklehurst, 512 W. Norris street, Philadelphia.

Residence and Garage (alt. and add.), Whitemarsh, Pa. Architects, Folsom & Stanton, 1328 Walnut street, Philadelphia. Owner, Wayne W. Light, Whitemarsh, Pa. Frame, 2 stories, 50x25 feet, shingle roof, new living quarters over garage, general repairs to residence (plumbing, heating and lighting reserved). Contract awarded to Benj. A. Brooks, Plymouth Meeting, Pa.

Office Building (alt.), Eighth and Hamilton streets, Allentown, Pa. Architects, Ruhe & Lange, Allentown, Pa. Lessees, Lehigh Navigation and Electric Co., Allentown, Pa. Consists of brick work, 2 stories, 110x40 feet, general interior alterations. Contract awarded to George Hardner, Allentown, Pa.

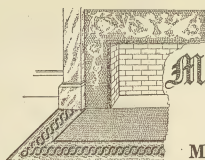
New Jersey Construction News

School, Waterford Township, Camden Co., N. J., \$3,000. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, School Board of Waterford Township, Camden Co., N. J. Brick, 1 story, 24x36 feet, shingle roof, pine floors. Owners taking bids (revised), due November 24th. Frederick Lange, Audubon, N. J., and Geo. W. Shaner, Palmyra, N. J., are figuring.

Church, Middlebush, Somerset Co., N. J. Architect, Alexander Merchant, 363 George street, New Brunswick, N. J. Owners, Elders & Deacons of the Middlebush Reformed Church, New Brunswick, N. J. Brick and stone, 1 story and basement, 66x54 feet, slate roof, cement and maple floors, metal lath, waterproofing and dampproofing, ornamental iron work. Architect has received bids.

Garbage Incinerator, Cape May, N. J. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Dept., Washington, D. C. Frame and stucco, of such type, shape and dimensions as will meet requirements of specifications, slate roof, electric lighting, metal lath. Owners have received bids.

School, Cambridge, Burlington County, N. J. Architect, A. W. Kleeman, First National Bank Building, Trenton, N. J. Owners, School Board of Burlington County, Cambridge, N.



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J. Brick, 1 story and basement, 68x62 feet, slate and slag roof, cement and maple floors (steam heating, plumbing and electric lighting reserved). Plans in progress.
Superintendent's Cottage, Bordentown, N.

J., \$7,500. Architect, F. H. Bent, State Capitol Building, Trenton, N. J. Owners, Colored Industrial School, care of Mr. Valentine, principal, Bordentown, N. J. Brick, 2½ stories. Plans in progress. Too early for details.

NEW JERSEY

Contracts Awarded

Warehouse (add.) (4 bays), Camden, N. J. Architect, private plans. Owners, New York Shipbuilding Co., Camden, N. J. Reinforced concrete and brick, 1 story, 88x25 feet each, J-M roof, cement floors, hollow metal skylights, roof ventilators. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Residence, Morris Heights, N. J., \$12,000. Architect, W. W. Slack, 21 Regis Building, Trenton, N. J. Owner, Charles H. Carver, Fallington, N. J. Hollow tile and stucco, 2½ stories, 32x43 feet, slate roof, hardwood floors, electric lighting. Contract for carpentry awarded to I. Harper Clayton, American Mechanics' Building, Trenton, N. J., and to J. H. Morris, Broad Street Bank Building, Trenton, N. J., for masonry.

School, Yardville Heights, N. J., \$24,000. Architects, Slack & Son, 21 Regis Building, Trenton, N. J. Owners, School Board of Hamilton Township, Mercer County, N. J. Brick, 2 stories, 4 rooms, slate roof, pine floors

(steam heating, electric lighting and plumbing reserved). Contract for carpentry awarded to Harry Hilton, 14 Ellsworth street, Trenton, N. J., and for masonry awarded to Jos. E. Barlow, Yardville, N. J.

Residence and Garage (alt. and add.), N. E. Cor. Harrisburg avenue and Thorofare, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Allan K. White, on premises. Brick and frame, 3 stories, 31x80 feet, slate roof, composition floors, hot water heating, electric lighting, tile and marble work (heating and lighting reserved), elevator. Contract awarded to Harry Seull, Atlantic City, N. J.

Restaurant, Atlantic City, N. J., \$9,500. Architect, Howard A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, Hong Kong Low, Atlantic City, N. J. Brick, 2 stories, 22x71 feet, slag roof, composition roof, hot water heating (electric lighting, flush bulks. Contract awarded to Nicholas W. Young, Atlantic City, N. J.

MARYLAND

Construction News

Bungalows (4), Chelsea avenue, south of Duvall, Baltimore, Md. Architect, private plans. Owner, George R. Morris, Title Building, Baltimore, Md. Stone foundations, 1½ stories, slate roof, hot water heating, electric lighting, gas lighting, tile work, plumbing,

plastering and painting. Plans in progress. Owner will take sub-bids on all lines.

Distributing Station, Custom House avenue, Baltimore, Md. Architect, private plans. Owners, Consolidated Gas, Electric Light and Power Co., Lexington street, Baltimore, Md.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

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1927 W. Montgomery Avenue, Philadelphia, Pa.

Brick and steel, 3 stories, 66x90 feet, slag roof, rolled steel sash, dampproofing, plumbing. Plans in progress.

Dwellings (10), Sparrows Point, Md. Architect, E. L. Palmer, 519 North Charles street, Baltimore, Md. Owners, Bethlehem Steel Co., care of T. W. Stingley, Sparrows Point, Md. Hollow tile and stucco, 3 stories, slate roof, hot water heating, combination lighting, tile work, hardwood floors. Plans in progress.

Piers (2), Locust Point, Baltimore, Md. Engineer, John E. Greiner, Fidelity Building, Baltimore, Md. Owners, Baltimore and Ohio R. R. Co., Baltimore, Md. Steel, concrete and timber, galvanized walls and roof, plan floors. Superstructure awarded to Frannie Bros. & Haigley, 18 Clay street, Baltimore, Md., who will take sub-bids.

Y. M. C. A. Building, Druid Hill avenue and Dolphin street, Baltimore, Md., \$100,000. Architect, private plans. Owners, Y. M. C. A. (Colored Branch), on premises. Brick, 4 stories, 60x100 feet, slag roof, steam heating, electric lighting, iron work, reinforced concrete work, tile work. Builder, George R. Morris, Title Building, Baltimore, Md., taking sub-bids.

Maryland

Contracts Awarded

Garage, Greenhouse and Engine House, Singery, Md. Architect, E. C. May, Dupont Building, Wilmington, Del. Owner, T. W. Baechus, Singery, Md. Frame, 1 story, 40x28 feet and 28x14 feet, slate roof, cement floors, electric lighting, gasoline storage system. Contract awarded to A. M. Stricklin & Son, Elkton, Md.

Barracks, Fort Howard, Md., \$150,000. Architect, private plans. Owners, U. S. Government, Coast Artillery Range, War Department, Washington, D. C. Frame, 2 stories, ready roofing. Contract awarded to Consolidated Engineering Co., Calvert Building, Baltimore, Md.

Building (alts.), 133 West Mt. Royal avenue, Baltimore, Md. Architect, Theo. W. Pietsch, American Building, Baltimore, Md. Owners, Tire Co. of Baltimore, care of Mr. McGraw, 135 West Mt. Royal avenue, Baltimore, Md. Consists of new front, marble work, metal bulks, electric lighting. Contract awarded to John S. Busick, 2811 Raynor avenue, Baltimore, Md.

Building (add.), 8 S. Paca street, Baltimore, Md., \$2,500. Architect, private plans. Owners, Jos. H. Rieman Estate, Western National Bank, Baltimore, Md. Brick, 1 story, 30x22 feet, slag roof, electric lighting, plumbing, plastering, painting. Contract awarded to W.

E. Harn, 213 N. Calvert street, Baltimore, Md.

Dry Kiln, Hamburg street, Baltimore, Md. Architect, private plans. Owners, American Propeller Co., 233 E. Hamburg street, Baltimore, Md. Brick and steel and concrete, 1 story, 55x77 feet, slag roof. Contract awarded to Price Concrete Const. Co., Maryland Trust Building, Baltimore, Md.

Dwellings (7), Thirty-fourth street, near Chestnut avenue, Baltimore, Md., \$15,000. Architect, F. E. Beall, St. Paul street, Baltimore, Md. Owner, Charles E. Litsinger, 3678 Falls Road, Baltimore, Md. Brick, 2 stories, 15x46 feet, slag roof, steam heating, electric lighting, stucco work. Owner will sub-let.

Delaware

Construction News

Store and Office Building, Wilmington, Del. Architects, McClure & Harper, 834 Market street, Wilmington, Del. Owner's name withheld. Brick, 2 stories, 104x68 feet, maple floors (steam heating, electric lighting and plumbing reserved), tile and marble work, hollow metal skylights, flush bulks, waterproofing, ornamental iron work. Architects taking approximate bids.

Residence (alt. and add.), Wilmington, Del. Architect, Leon W. Crawford, Wilmington, Del. Owner, Townsend W. Miller, Wilmington, Del. Brick and stucco, 2½ stories, 6 rooms, shingle roof, hardwood floors, electric lighting, tile and marble work. Plans in progress. Architect will take bids in a few days.

Factory, Vandevere avenue and Jessup st., Wilmington, Del. Architect, Leon W. Crawford, Wilmington, Del. Owners, Diamond Ice & Coal Co., Wilmington, Del. Brick, 1 story, 70x250 feet, composition roof, concrete floors, electric lighting. Plans in progress. Architect will take bids in a few days.

Armory (add.), Milford, Del. Architect, Leon W. Crawford, Wilmington, Del. Owners, Gen. Wickersham, Wilmington, Del. Brick and stucco, 1 story, asbestos shingle roof, pine floors, electric lighting. Plans in progress. Architect will be ready for bids in a few days.

Garage and Sales Building, Second and French streets, Wilmington, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John P. Cahill, Wilmington, Del. Brick (slow burning construction), 3 stories, 66x68 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, pine floors, elevators, metal ceilings. Plans in progress.

Comfort Station, Fourth and Church sts., Wilmington, Del. Engineers, County Eng. of New Castle Co., City Hall, Wilmington, Del.

Owners, Levy Court Commissioners of New Castle, Wilmington, Del. Brick, 1 story, 33x13 feet, slate roof, concrete floors, electric lighting, marble work. Low bidder: H. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Chapel (alt.), Rodney street, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Westminster Presbyterian Church, on premises. Stone, 1 story, general interior alterations. Contract awarded to H. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Bank, New Castle, Del. Architect, Charles R. Peddle, 134 South Fourth street, Philadelphia. Owners, New Castle Trust Co., New Castle, Del. Brick and marble, fireproof, 1 story and mezzanine, 24x80 feet, slag roof, marble and composition floors, hot air heating, electric lighting, tile and marble work, bank fixtures, metal lath. Plans in progress. Architect will take bids in one week.

Miscellaneous

Construction News

Machine Shop, Navy Yard, Washington, D. C. Architect, private plans. Owners, U. S. Govt., F. R. Harris, Chief, Navy Dept., Bureau of Yards & Docks, Washington, D. C. Reinforced concrete and brick, 5 stories, 502 x162 feet, composition roof, steam heating, electric lighting, pine floors, hollow tile, elevators, rolled steel sash, fire doors, hollow metal doors, ornamental iron work, wire work. Low bidder, Warren-Moore Co., Colonial Trust Building, Philadelphia, \$1,048,000.

Church, Rochester, N. Y., \$40,000. Architect, A. A. Ritcher, 31 North Sixth street, Reading, Pa. Owners, Grace Evangelical Lutheran Congregation, Rochester, N. Y. Brick, 1 story, basement and gallery, 90x90 feet, slate roof, vapor heating, electric lighting, metal lath, waterproofing, hardwood and tile floors, tile and marble work. Plans completed. Owners will take bids in a few days.

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A retailer may fool himself by failing to charge all of his expenses into his cost of doing business, but his expenses will come out of his gross profits just the same.—Ex.

We have pebbles all sizes. Cost less than what you are using. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

SUGGESTIONS ON PRACTICE.

The following report of the committee appointed to prepare recommendations to the National Association of Builders' Exchanges on ethical practice at the Atlantic convention in February, 1917, was submitted by Charles W. Bernhardt, chairman, Committee on Ethical Practice.

Report.

The purpose of these recommendations it is hoped will bring into general practice better co-operation, and the better understanding of relations toward each other. We therefore submit the following:

No. 1. We recommend that bids only be filed when a time and place has been set, and they are to be opened in the presence of bidders or their representatives; and shall be open to inspection by any contractor bidding on the work.

No. 2. When the general contractor places his bid with the architect, he shall also place a copy of the bid with the proper officer in the exchange or association to be opened and tabulated within one hour, after the set time.

No. 3. We recommend that at the time the general contractor submits his bid to the architect, the sub-contractors on the same work shall file with the proper officers at the exchange or association a copy of their bids, said bids shall be opened and tabulated within one hour, and shall be open to inspection by any sub-contractor bidding on that work, in its particular line.

No. 4. Sub-contractors should not submit estimates to general contractors unless invited to do so.

No. 5. We discourage the practice of making a deposit for the use of plans in making estimates.

No. 6. We recommend that all contracts be placed with and through the general contractor.

No. 7. We recommend the elimination of the preliminary bond and certified checks with bids.

No. 8. We recommend that the architect award the contract to the lowest bidder.

No. 9. Where bids are asked and no award is made, a compensation should be paid to the lowest bidder.

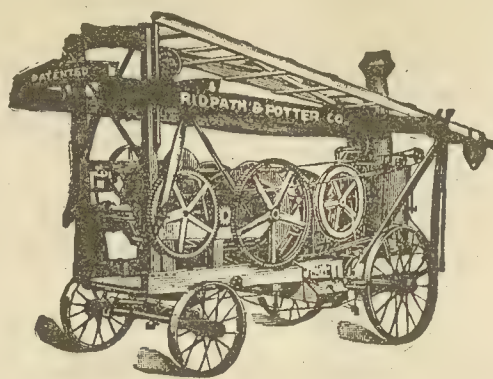
No. 10. We discourage the practice of contractors making preliminary plans for prospective builders.

No. 11. We discourage the practice of asking for alternate bids.

No. 12. We recommend the fullest publicity in the handling of our business.

ABSOLUTELY NECESSARY.

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We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.**



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O is the abbreviation for owner. C is for contractor.

Philadelphia

Shed and Office, Tioga and Livingston sts., \$5,020. Jos. Hyman (O), 2859 Tulip street. Davis & Clayton (C), 1841 Ginnodo street. Brick, 1 story, 24x57 feet, slag roof, cement floors; brick, 1 story, 16x26 feet, slag roof, plastering.

Coal Pocket, Erie avenue and Lawrence st., \$170,000. Phila. & Reading R. R. (O), Philadelphia, Pa. Robert & Schaefer (C), Chicago, Ill. Reinforced concrete.

Garage, 533 Pelham road, \$600. Rob. Kilough (O and C), Wayne and Duval streets. Stone, 1 story, 13x21 feet, slate roof.

Garage, 5115 Willows avenue, \$400. S. Snyder (O), on premises. Geo. Franch (C), Lanarch. Brick, 1 story, 11x16 feet.

Office, Fifth and Montgomery avenue, \$2,000. John B. Stetson Co. (O and C), on premises. Brick, 1 story, 11x51 feet, slag roof.

Power House, Vintage and University avenue, \$238,600. City of Philadelphia (O), City Hall. Standard Const. Co. (C), 1713 Sansom street. Brick, 1 story, 44x132 feet and 52x210 feet.

Garages, 2818-20 Belgrade street, \$3,800. W. D. Gould (O), on premises. Al. Schmidt (C), 2449 Hancock street. Brick, 1 and 2 stories, 32x72 feet, slag roof; brick, 2 stories, 32x28 feet, cement floor.

Shops (3), E. Richmond and Norris sts., \$34,900. Wm. Cramp & Sons Ship Building Co. (O), Philadelphia. Hoffman Eng. and Cont. Co. (C), Pennsylvania Building. Blacksmith shop, building No. 2, 1 story, iron on iron, 80x100 feet; pipe storage building No. 3,

iron on iron, 20x30 feet; structural shop building No. 1, iron on iron, 1 story, 120x120 feet.

Factory, Sixteenth and Hunting Park ave., \$200,000. Bellevue Worsted Mills (O), on premises. H. E. Baton (C), 1713 Sansom st. Brick, 3 stories, 340x61 feet, slag roof, steam heating.

Dwelling, 1719 Dyre street, \$2,960. Jos. H. Thorn and wife (O), 5140 Hawthorn street. Adam Forepaugh (C), 1671 Dyre street. Stone and brick, 2 stories, 16x32 feet, slag roof, hot water heating.

Shed, Trenton avenue and Cambria street, \$1,000. J. J. Diamond (O), on premises. H. Brocklehurst (C), 512 W. Norris street. Brick, 1 story, 19x80 feet, slag roof.

Garage, 221 W. Hortter street, \$1,000. R. H. Bowen (O), on premises. McClintock & Weaver (C), 24 W. Phil-Elena street. Stone, 1 story, 20x21 feet, slag roof.

Dwelling, Lefever and Salmon streets, \$2,500. William Jesek (O), 4363 Thompson st. Lewis Ahlem, Jr. (C), 4433 Salmon street. Brick, 2 stories, 15x40 feet, slag roof, hot air heating.

Warehouse, 1224 Beach street, \$1,500. Thos. Bros. Co., Inc. (O), 324 E. Allen street. Thos. Foster (C), 402 Richmond street. Iron frame, 1 story, 40x40 feet.

Garage, 6113 Oxford street, \$950. H. C. Mallon (O), on premises. A. Verdi (C), 6145 W. Girard avenue. Brick, 1 story, 21x22 feet, slate roof.

Alterations and Additions

Dwelling, 1315-17 Spruce street, \$3,500. Engineers' Club of Philadelphia (O). Smith Hardican Co. (C), 1606 Cherry street. Brick, 3 story addition, 17x22 feet.

Store and Dwelling, 700 South Eighteenth street, \$500. Andrew McGish (O), Moores, Delaware Co. A. MacTavish (C), 1515 Pine street. Alterations.

Rooming House, 1821 Wallace street, \$850. Academy of New Church (O), Bethayers, Pa. Brownworth & Co. (C), 1611 Sansom street. Fire escape.

School, Orrianna and Earp streets, \$8,000. St. Casimer Church (O), 324 Wharton street. John Engel (C), Fifth and Indiana avenue. Brick, 1 story on present building, 85x49 feet, slag roof.

Store and Dwelling, 1801 W. Ontario st., \$350. Geo. S. Price (O), on premises. B. F. Virden (C), 2917 Fletcher street. New flush bulk.

Dwelling, 1512 North Eighteenth street, \$400. Wm. Trautwine (O), 515 Hale Building. Sam Shuster (C), 744 North Forty-third street. Brick, 1 story, 10x15 feet, tin roof.

Store, 209 North Broad street, \$400. Penna. Rubber Co. (O), on premises. Thos. Cusack Co. (C), 213 South Tenth street. Erect metal sign.

Dwelling, 1229 Federal street, \$450. John Sessmina (O), 1420 Wharton street. F. Donato (C), 825 Moore street. Alterations.

Factory, 116 North Front street, \$6,000. Geo. D. Wetherill Co. (O), 114 N. Front st.

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Harry H. Wehmeyer (C), 1004 W. Lehigh avenue. Fire repairs.

Store Building, 1032 Arch street, \$3,000. Perot Bst. (O), Philadelphia. Harry R. Rust (C), 19 South Eighth street. Strengthen floors.

Dwelling, 2154 E. York street, \$800. Jas. H. Hawkbridge (O), on premises. Jas. Eaton (C), Marshall and Luzerne street. Brick, 2 stories, 14x15 feet.

Store and Dwelling, 4353 Wayne avenue, \$600. Mark Backwiski (O), on premises. Arthur Sieminski (C), 1534 Ruffner street. Alterations.

Assayers and Repairs, 709 Sansom street, \$2,500. Mrs. Hoopes (O), Atlantic City, N. J. A. H. Williams Son (C), 419 Locust st. Alterations.

Stable, 3738 Market street, \$2,500. M. Sullivan (O), on premises. Rath Construction Co., Inc. (C), 302 Master street. Repair fire damages.

Dwelling, 5521 Chestnut street, \$450. Penton & Englander (O), 412 Crozer Building. F. E. Brown Heating Co. (C), 18 South Seventh street. New boiler.

Dwelling, 503 Hansberry street, \$500. S. A. Zatvall (O), on premises. M. S. Overholtzen (C), 554 Pulaski avenue. New shingle roof.

Garage, 6035 Magnolia avenue, \$300. Chas. Crothers (O), on premises. M. S. Overholtzer (C), 5524 Pulaski avenue. Alterations. Factory, corner of Collins and Willard sts., \$500. General Processing Co. (O and C), on premises. Tank, 20,000 gallons.

Dwelling, 5608 Ridge avenue, \$4,000. F. L. Kenworthy (O), 5535 Ridge avenue. E. R. Clark Co. (C), 536 Walnut lane. Brick, 1 story, 6x30 feet and alterations.

Dwelling, 1 Lehman lane, \$2,000. Reed Cary (O), on premises. Wm. J. Grehler & Co. (C), 219 High street. Stone, 3 stories, 17x10 feet, tin roof.

Dwelling, 4140 Leidy avenue, \$600. A. Levin (O), on premises. A. Rubin (C), 1121 Thompson street. Brick, 1 story, 13x15 feet, slag roof. Interior alterations.

Factory, Twelfth and Callowhill streets, \$1,000. Wolf Bros. (O and C), on premises. Alterations to elevator hatch.

Dwelling, 6163 Walnut street, \$3,000. Wm. Meechan (O), Sixty-second and Walnut sts. Raith Const. Co. (C), 302 Master street. Brick, 1 story, 26x9 feet and 2 stories, 24x3 feet, cafe and kitchen addition, slag roof.

Dwellings, 1101-03-05-07 S. Darien street, \$1,000. Octavia Hill Association (O and C), 613 Lombard street. Alterations.

Store, 2541 South Charlon street, \$1,700. W. Bacharach (O), on premises. H. D. Prettyman (C), 2003 South Broad street. Brick, 2 stories, 14x15 feet, slag roof.

Warehouse, Mascher and Berks streets, \$500. Isaac Rosenthal (O), 190 W. Berks st. M. Golden (C), 2307 Auburn street. Alterations.

Garage, Clifford and Montgomery avenue, \$2,500. Wm. M. Lloyd Co. (O), Twenty-ninth and Ridge avenue. E. E. Hollenback, Inc. (C), 1804 Brandywine street. Brick, 1 story, 25x70 feet, slag roofing, cement floors.

Garage, 2056 Sansom street, \$400. C. F. Simon (O), 112 South Sixteenth street. Jas. J. Quicley & Son (C), 1342 Ridge avenue. Hot air heating.

Garage, 4627 Green street, \$300. W. Newman (O), on premises. Chas. Johnson (C), 5701 Boyer street. Garage under porch.

Dwelling, 244 W. Sum street, \$400. G. F. McGowan (O), 214 West Conlter street. Wm.

J. Robinson (C), 1508 Lombard street. Alterations.

Storage Building, 1312 Addison street \$600. H. K. Mulford Co. (O), 402 South Thirteenth street. A. Smith (C), 412 South Thirteenth street. Iron on iron, 1 story, 15x22 feet, slag roof.

Boiler House, Delaware and Weccacoe avenues, \$6,000. American Agu. & Chem. Co. (O), Drexel Building. Brick, 1 story, 20x20 feet and 1 story, 26x20 feet, slag roof.

BEFORE A MAN BUILDS.

Is it true that the average individual who builds is more to be censured than pitied? And, if so, why? Offhand, this seems a radical and revolutionary precept: it reverses and supersedes the true and time-tried philosophy of the Save-me-child-melodrama, and the charity that stirs the heart sympathy for the erring. For, 'tis only human to err.

Perhaps that solves it, because, as may be recalled, "To err is human, to forgive divine," and when we view the well-known human race erring to-day in the business relationships of building as it erred last week, and last year, and on back beyond that for quite some time, it appears that a little less of forgiving syrup and a bit more corrective bitters is in order.

Mr. C. Matlack Price is largely responsible for the penning of the above and foregoing paragraphic vagaries. In his interesting volume, "The Practical Book of Architecture," is found this comment: "It is a strange and inexplicable circumstance that so many business men, punctilious to a degree in their every-day business dealings, and in the enforcement of system and routine in their offices, are flagrantly un-businesslike in their dealings with the architect."

"Perhaps no one thing is more important for the client to remember throughout the building of his house than the fact that, after engaging an architect, he has entered upon a business relationship, and that the more businesslike this relationship is kept the better for both parties.

"The building of a house, even a small house, calls for the expenditure of too much money on the one hand and too much skilled professional work on the other to be regarded as a 'mere transaction between friends.'"

Without energetic effort a man must remain in a rut and can never expect to share with his hustling, up-to-date competitor. Quoting the words of a gifted scribe: "Health attends the man who acts. Wisdom guides him. Hope frees him. Joy helps him. Power moves him. Progress marks him. Fame follows him. Wealth rewards him. Love chooses him. Fate obeys him. God blesses him. Immortality crowns him."

OLD MEN INSTEAD OF BOYS IN FACTORY WORK.

By E. I. Du Brul.

President, The Miller, Du Brul & N. Peters Manufacturing Co., Cincinnati, Ohio.

Beginning with January of this year, as it was extremely difficult to keep boys on certain work that was in the nature of "blind alley" jobs, to which there was no future and where the work was light, we began the employment of older men. The results have been so good that we want to pass the word along to all members of the Association, believing that great benefit will be derived from our experience.

The sort of work we are putting these men at is the kind that a boy soon tires of. It is not arduous, but requires steady application, and the monotony wears on the ordinary young boy of from sixteen to eighteen, and as the job has no future at all he very soon gets tired of it, no matter what rate of wages is paid. Therefore we decided that probably the use of men without a future, on these jobs without a future, would be more logical.

Through the free labor bureau operated jointly by the state and municipal authorities, we have gathered a force of elderly men, fifty years or more of age, practically all of whom had been unskilled workers in their younger days. They are physically sound but not strong enough to do hard work. Most of them are men who have been dependent on their families for support, and a chance to do work that will support them is greatly appreciated by them as well as their families.

Quite a number of such men can be found who are adaptable. They are serious, and the discipline in the departments using them is decidedly better than it was when we had boys on the job. Furthermore, as present day boys are very uncertain and irregular in their attendance as well as in the quantity of work they do during the day, we find a decided increase in output.

We really believe that manufacturers generally have gone to an extreme in confining such work heretofore to boy labor, and we find the old men are so much better that we never will go back to the employment of boys except in positions where the boy has a future and where the more vigorous type of employe is required.

We do not doubt that many a member of the Association is to-day overlooking an unsuspected source of labor supply, just as we did for years, and that for their own benefit, to say nothing of the good they do such men, it would be well for them to adopt a policy similar to ours whenever possible.

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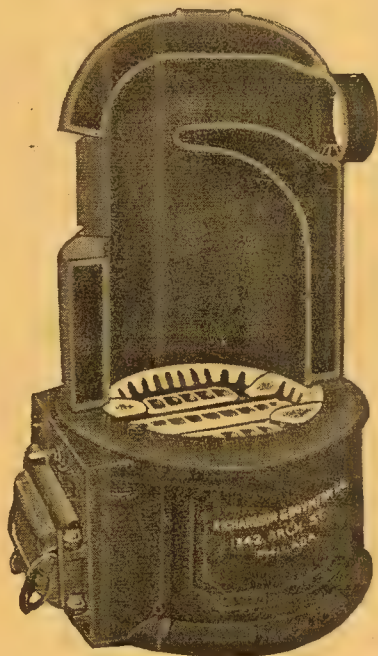
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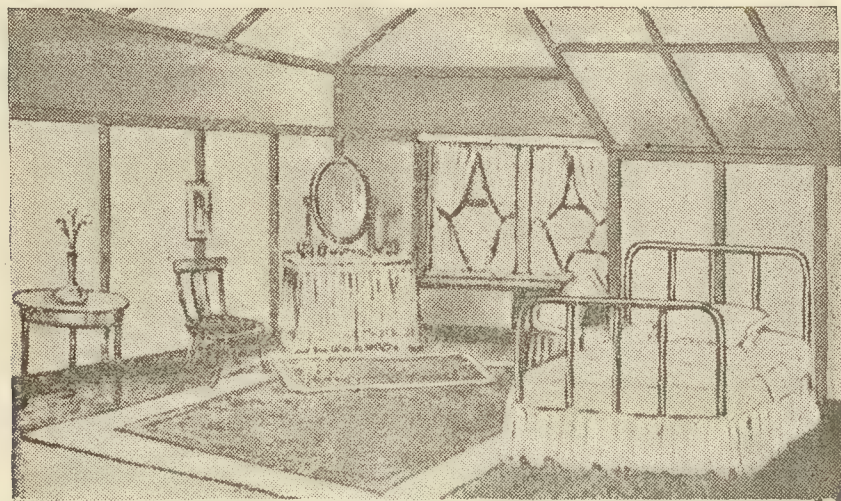
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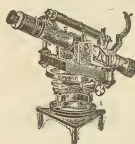
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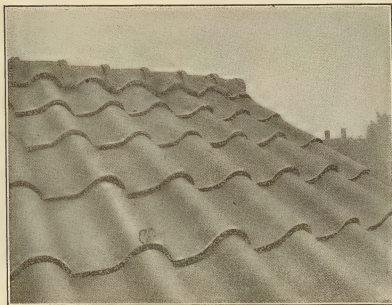
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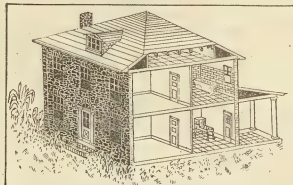


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 47

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As The Editor Sees It



IN the face of general concurrence in the proposition that structural steel is going to be an uncertain quantity for some time to come, architects are beginning to figure the possibilities of meeting existing demands with structural types in which the steel frame is not an integral necessity. Discussing given phases of this subject in a recent number of the *New York Real Estate Record*, Mr. H. H. Murdock, of the architectural firm of Jardine, Hill & Murdock, writes:

"At a time when building materials are at a higher level than formerly, and one's calculations, based on previous standards of cost of construction, are upset, it is interesting and instructive to figure out what means can be employed to offset these higher prices of materials by substituting other methods of construction.

"An analysis of the cost of a large, high-grade loft and show-room building, built in the usual fireproof fashion, with structural steel frame and brick enclosing walls, with limestone for the lower three stories and terra cotta for the upper two stories, shows that if this building were duplicated to-day exactly as it was built in 1915-1916, the increase in cost would be approximately 40%; based on structural steel costing \$100 per ton erected. This analysis also shows that if structural steel could be procured at what it cost in 1915-1916 that the increase in cost, if the building were duplicated, would be approximately 21%. In other words, the rise in cost of struc-

tural steel erected represents approximately one-half of the total increase. Here, then, we have a good opportunity to study the possible substitutes.

"Formerly cast iron was used almost universally for columns and with good results. There have been very few, if any, cases of failures and even in a fire cast iron has stood the test, if properly fireproofed. The usual construction formerly was cast iron columns and steel or iron beams and independent walls. Many of our older office buildings are constructed in this way.

* * *

THE use of reinforced concrete has been growing more general. It has practically supplanted mill construction. It is used even in fireproof structural steel frame buildings to a greater or less extent. For floor construction the usual construction is reinforced concrete or terra cotta blocks or a combination of reinforced concrete and block. It has been used with satisfactory results, not only for the floor slabs, but for beams and girders with structural steel or cast-iron columns. The interesting question is how much further can the use of reinforced concrete go toward reduction in cost of building.

"To ascertain what the difference in cost would be at to-day's prices between structural steel and reinforced concrete for the frame work and rough floor construction only, an analysis has been made, using the known costs of a ten-story, high-grade loft and office build-

ing now being erected. This building has approximately 11,000 sq. ft. per floor, with regular column spacing, and throughout 120 pounds per square foot live load.

* * *

THE counterpart of the steel frame and rough floor construction, maintaining the same column spacing and height of stories, has been estimated in reinforced concrete. No attention has been given to the walls, plastering, finished floors, mechanical equipment, etc., it being desired to make the comparison on the main frame work and rough construction only. Every consideration has been given, however, to be sure that if the building were duplicated in reinforced concrete construction the same architectural results would be obtained. Manifestly, if liberties were taken in order to make use of adopted standards simply to cut the cost the comparison would be of no value.

"This comparison shows a considerable saving in favor of the reinforced concrete frame work over structural steel at to-day's prices, i. e., assuming steel at \$100 per ton erected. It shows that at to-day's prices of cement and bars that the reinforced concrete frame can be built as cheaply as structural steel frame, even if the price of structural steel should drop to \$.70 per ton erected, not to mention the fact that if structural steel dropped to this price reinforcing bars would also undoubtedly drop, too, giving

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the reinforced concrete frame a still further advantage.

"The cost of reinforced concrete frame and rough floors of this particular building would be \$149,000, against a total of \$190,000 for structural steel and rough concrete floors, with structural steel figured at \$100 per ton erected, a saving of \$41,000 at present market prices."

* * *

IT must not be assumed that this same saying would work out on every building. To show the best comparative results floor area should be large, column spacing regular and the height not exceeding ten or twelve stories. On two or three, or even five or six, story buildings, the familiar wall bearing construction, with perhaps reinforced concrete girders and beams and cast iron or steel columns, will probably figure out more economically than all reinforced concrete. Apartment houses that are likely to have irregular column spacing and light floor loads will not, as a rule, show a saving in reinforced concrete.

"Every one is familiar with the large reinforced concrete buildings that have been built in Brooklyn, Long Island City and the Bronx, and a visit to other cities impresses one with the larger use that is made of reinforced concrete for loft and show-room buildings and often for office buildings and hotels. For some reason there is an absence of such buildings of reinforced concrete on Manhattan Island. This may be due to the fact that the large buildings have been too high to build in reinforced concrete. It may be that the loaning institutions have hesitated to make loans on reinforced concrete buildings for fear they may collapse. It may be that the Building Code was not favorable to this type of construction. (Since October 6, 1915, article 16 of the Building Code has been in effect, setting forth the present requirements for reinforced concrete.) And it may be that no one has thought of the substitution or partial substitutions."

* * *

IT is unquestionably true that there has been a natural hesitancy to use reinforced concrete because of failures that have occurred just as there are still people who are opposed to sprinkler systems for fear of an unexpected—perhaps they would say expected—shower. These same people, however, more than likely have their offices in buildings with reinforced concrete floor construction and stand beside their safes with no thought of a hurried trip to the basement. If the prejudice against using reinforced concrete horizontally has been overcome, why should a similar prejudice remain against using it vertically?

"On any proposed building of the general type suggested above, which can be suitably constructed of reinforced concrete, it would pay, at to-day's prices, to have it figured both ways. To accomplish this it is essential to have plans worked out for each type of construction, and no one should allow himself to be persuaded that this is not necessary."

"The purpose of this article is not to boom reinforced concrete, but only to point out wherein savings by substitution of materials may be made. Undoubtedly this comparison could be carried further and, in other items in a building, savings shown by using reinforced concrete in place of brick, etc. Consideration must also necessarily be given to column sizes and depth of girders and beams as to whether the reinforced concrete requires heightening of the building and reduction of floor space."

* * *

ON the floor construction itself it is possible and, in fact, common practice to use monolithic slab construction, that is, casting the rough slab and applying the finished wearing surface directly to it, instead of introducing the usual cinder fill on a cushion under the wearing surface. While this does not provide a space to receive piping and conduits, these can be cast into the slab. The saving in this monolithic construction is quite an item.

"The possibilities of a combination of materials offer plenty of opportunity for savings, especially along the line of use of cast iron for interior columns and reinforced concrete exterior columns and walls. These uses can only be suggested here, but were an architect to approach a given problem with an open mind unprejudiced against cast iron or reinforced concrete unquestionably economical adaptations could be worked out."

"Consideration can also well be given to the obtaining of materials as well as their cost. Delays cost money. If cement, gravel and bars can be obtained promptly and structural fabricated steel cannot, this is an important item to take into account."

"Progress is continually being made toward improvement of building materials and methods, and in the substitution of materials and construction to reduce the cost of building. At this time with the changes that have taken place in the prices of materials relatively, and on account of the price and scarcity of labor, especially unskilled labor, there is greater opportunity than ever for constructive work along the line of substituting other types of construction and materials, and especially by the introduction in every branch of labor saving methods."

I HAVE quoted at some length from Mr. Murdock's article, because the subject is one that, to my mind, is of paramount importance in the present crisis. Buildings we must have to meet the normal and extra-normal demands of industrial expansion growing out of war conditions. If structural steel may not be had it is obviously the logical thing to turn to some substitute type of building from which structural steel may be omitted. Whether this is to be slow-burning construction, reinforced concrete or some new combination as yet undiscovered, it is up to the ingenuity of the architect to determine. We have the utmost faith that, granted the necessary stimulus, the American inventive faculty will find a way to overcome such obstacles as are now asserting themselves.

* * *

JOHAN N. MCGARVEY, a well-known West Philadelphia operative builder, is putting up a block of three-story, individual garage homes, on Forty-fifth street at Baltimore avenue. The houses are of a better type than the average operative dwelling, contain two baths and inclosed porches and sell at a figure just beyond the means of the average investment home buyer. Although the houses are not yet completed nearly half of the block has been sold. I am making this little reference to the fact to bring into relief two outstanding points that I feel should come in for especial emphasis in this season of gloom and pessimism in the building trades. One of the two points is that it pays, now as always, to build a good type of house; the other, that operative dwellings may be built, as readily, to-day, as two years ago, and sold perhaps with a trifle less of effort. The moral would seem to be that the operative builder who is holding back in the hope of easier conditions missing an opportunity.

* * *

YOU have noticed, I amagine, the custom more or less popular among architects of employing in inscriptions upon buildings, monuments and similar works, the letter V as a substitute for U. *Printers' Ink*, the spicy, little New York advertising magazine, pokes some good-natured fun at the custom in the following verses:

Why do some modern architects assume
that U is V,
And carve in stone that palpable and
bold absvrdity?
Now that we possess the U with soft
and gracefvl crvve,
Of vnexcelled docility and willingness to
serve;
Why do they carve *United States* and
Public School and svch
And make the English language look as
fvnny as the Dvutch;

With *Restaurant and Pullman Car and University*,
And other marks of educational perversity;
That V impresses some of vs as cheap
and gaudy stuff,
Which parvenies may pvll in place of
more svbstantial stuff;
Bvt people who are fashioned ovt of vn-
pretentions dvst
View all svch affection with an vnas-
svmed disgvst,
Svch exhibitions always make vs glvm
and sore and blve.
Now honest Injvn, don't they have the
same effect on yov?

* * *

A RCHITECTURE AND BUILD-
ING, the New York magazine,
of which the late Theodore Star-

rett was for many years the chief contributing editor has this brief but eloquent tribute to his memory in the October number:

"To those who were fortunate enough to have enjoyed the companionship of Theodore Starrett, to have known him in his varying moods and to have appreciated his brilliant mentality and many talents, the shock of his death is an enduring one. Seldom in a lifetime is it given to one to know ntimately a man of such attainment. His career was one of action and vast production and there are great monuments to proclaim his energy."

Architecture and Building promises an extended appreciation of Theodore Starrett and his work to appear in an early issue.

Chicago Cement Machinery and Building Material Show will be held in the Coliseum, Chicago, February 6-13. The show will be held under the auspices of the National Exhibition Co., 123 Madison street, Chicago.

* * *

A. J. Neff, who has had about eighteen years' experience in the operation, maintenance and construction of public utilities, has recently become a member of the engineering force of the General Engineering and Management Corporation, New York City, as efficiency engineer. Mr. Neff has devoted the last four years to efficiency work, having been efficiency engineer for the American Public Service Company, operating properties in Texas and Oklahoma, for the last two years. He also had charge of all improvements and construction pertaining to the power plants for this company the last year.

* * *

American Wire Fabrics Company, Chicago, Ill., has opened an Eastern office at 160 Broadway, New York, in charge of Thomas E. Richards, who was formerly in charge of the local office of the New Jersey Wire Cloth Company, of Trenton, N. J.

* * *

George T. Fonda, safety engineer for the Bethlehem Steel Company, at South Bethlehem, Pa., has been appointed director of labor and safety of all the plants of the company.

* * *

Empire Veneer Company, 14 East Jackson Boulevard, Chicago, Ill., has opened a New York office in the Marbridge Building, 47 West Thirty-fourth street. Victor H. Mendler is in charge.

* * *

C. J. Weller is now representing the Graff Furnace Company, of New York City, and Union Radiator Company in Newark, N. J., with headquarters at 44 Hazlewood avenue, Newark.

* * *

T. B. Shertzer has become affiliated with the Hydrated Lime Bureau of the National Lime Manufacturers' Association in the capacity of Eastern District Engineer, with headquarters in New York.

* * *

Department of Architecture of the University of Washington, Seattle, desires to obtain catalogues of building materials. Please address communications to Carl F. Gould, head of the department.

* * *

T. H. Letson, formerly New York manager for the American Hoist and Derrick Company, has opened an office for the sale of hoisting, power and general contractors' equipment at 50 Church street.

* * *

James P. McNichol, one of Philadelphia's leading contractors, head of the firm of D. J. McNichol & Bro., the Keystone Construction Company and other widely known contracting concerns, died suddenly of heart failure last week. Mr. McNichol, who was a member of the State Senate, was the builder of Philadelphia's Filtration Plant, the Market Street Subway and other large engineering works.

EDITORIAL NOTES

George B. Post & Sons, architects, and Ernest P. Goodrich, engineer, have recently announced their association in the practice of architecture, engineering and city planning. The architectural force is represented by Wm. S. Post, J. Otis Post and George B. Ford, with offices at 101 Park avenue, and the engineering force by Ernest P. Goodrich and A. Pearson Hoover, with offices at 261 Broadway, New York.

* * *

The National Paving Brick Manufacturers Association held its annual meeting in Cleveland, Ohio, November 19 and 20.

* * *

The Youmans Electric Company, Inc., electric contractors, 45 Main street, Yonkers, N. Y., announce their entrance into the New York City field and have just opened offices at 17 West Forty-second street. They have a very capable staff and are very desirous of furnishing estimates to New York architects.

* * *

The Electrical Supply Jobbers' Association held its semi-annual meeting at the Hotel Cincinnati, Cincinnati, O., November 13-15.

* * *

The firm of Buchman & Fox, well known for many years in the practice of architecture, has been dissolved and a new co-partnership formed under the name of Buchman & Kahn, the partners being Albert Buchman and Ely Jacques Kahn. John M. Montfort is associated with the firm as general manager and the business is being conducted at the former offices, 30 East Forty-second street, New York City.

* * *

The American Society of Mechanical Engineers will hold its annual meeting at the Engineering Societies Building, New York City, December 4-7, 1917.

* * *

The new partnership known as Frainie Brothers & Haigley is engaged in the busi-

ness of builders and general contractors with offices at 18 Clay street, Baltimore, Md. The members of this partnership, Frank H. Frainie, Charles R. Frainie and Walter Leo Haigley, were formerly associated with the firm of Edward Brady & Son. With the retirement from that firm of Frank P. Brady the new partnership was organized.

* * *

The North Carolina Pine Association held its meeting in the North Carolina Pine Bungalow, Grand Central Terminal, New York City, Tuesday, November 22.

* * *

An invitation is extended to American sculptors to enter the competition for the monument to General Maximo Gomez, upon which the government of Cuba is planning to spend \$175,000. Proposals will be received up to noon of March 31, 1918. First prize, \$10,000; second prize, \$5,000; third prize, \$2,000. Brochures giving 'complete' details, illustrations, plans, etc., may be obtained by competitors at the Consulate General of Cuba, 44 Whitehall street, New York.

* * *

The Paint Manufacturers' Association of the United States held its convention at the Blackstone Hotel, Chicago, Ill., November 15 and 16. George B. Heckel, 636 The Bourse, Philadelphia, is the secretary.

* * *

Roy B. Woolley, formerly sales and advertising manager Standard Electric Stove Company, Toledo, and late of the American Ambulance Field Service at the Verdun front in France, having served his enlistment, has returned to America. He is now with the Society for Electrical Development, New York, as an executive in its advertising department. Mr. Woolley was with the McManus-Kelley Advertising Agency for some years, and is well known in advertising and electric circles.

Pennsylvania and Atlantic Seaboard Hardware Association and the New York State Retail Hardware Association will hold a joint annual convention and exhibition in New York City, February 12, 13, 14, 15, 1918. Headquarters at the Hotel Astor.

* * *

Newman-Cavallon Co., Inc., 8 West Fortieth street, New York, announce the opening of its new plant at Bayonne, N. J. This factory, covering an area of approximately 40,000 square feet, is equipped with the latest machinery for the manufacture of concrete hardener and is capable of turning out about 8,000,000 pounds of finished product a year.

* * *

Prominent among the noteworthy Governmental contracts awarded this week were the five groups of barracks, mess halls, latrines, etc., to be erected at various army posts in the Metropolitan district. These contracts were all obtained by the Turner Construction Company, 244 Madison avenue, Manhattan. An unusual feature in connection with these awards is the fact that while the Turner Construction Company has for years been a specialist in the erection of reinforced concrete structures, these contracts involve only one and two-story frame buildings, and demonstrates conclusively to what extent prominent building contractors are willing to co-operate with the Government at the expense of personal interests. The projects include groups at Sandy Hook, N. J., costing \$400,000; Fort Hamilton, N. Y., \$160,000; Fort Totten, N. Y., \$100,000; Rockaway Beach, L. I., \$20,000; Fort Schuyler, N. Y., \$20,000. All of these buildings will be erected by the United States Government, General I. W. Littell, Construction Quartermaster, from plans prepared by Major F. B. Wheaton, Washington, D. C., advisory architect.

* * *

Bay Ridge Specialty Company, Brooklyn and Trenton, N. J., manufacturers of bath room fixtures, has acquired the plant of the Royal Rubber Company, on Stokes avenue, which it will equip for manufacturing. A one-story building will also be erected. J. O. Hunt, 114 North Montgomery street, Trenton, N. J., is the architect.

* * *

During the past week the Detroit Board of Commerce considered starting a "Boost Building" movement similar to that inaugurated in New York and taken up subsequently in Chicago. The Board of Directors met on Friday and referred the matter to their Industrial Division, which will carry on the movement by organizing committees representative of all interests in the city of Detroit.

Allen Pendleton, president of the Board, and Stephen Hoyt, its vice-president, expressed their interest and desire that Detroit should take its place with other prominent cities in the consideration of matters having so great a bearing on the common welfare of the units of the building industry, and in furthering the efforts of this industry to aid in the national defense.

R. J. Morgan has been appointed supervisor of sales for the American Steel Export Company, New York. Mr. Morgan formerly was connected with the Midvale Steel and Ordnance Company. Prior to his association with the Midvale Company he was connected for thirteen years with the Carnegie Steel Company.

* * *

Republic Iron and Steel Company has opened an office in the Munsey Building, Washington, D. C., in charge of W. H. Oliver, Philadelphia manager of sales.

TO REVIVE BUILDING.

That the building situation is acute and is in need of readjustment is acknowledged by all who are in touch with present-day conditions. The increased cost of producing a structure has reached such a point that the market, so far as private and speculative work is concerned, is practically stagnant. Times have changed. Former prices can no longer hold good, and the sooner it is realized that a higher level has been reached and provisions made along these lines the better for the entire community. Even were the war to terminate within a short time, it is doubtful whether former prices would maintain until Europe was rebuilt.

A movement was recently inaugurated through Elliott Smith, President of the Building Material Exchange, having as its object the finding of a solution to better the present difficulties which beset the building field. At a meeting last Tuesday, in the offices of the President of the Borough of Manhattan, the recently appointed Committee of the Whole, which comprises leaders in various lines affiliated with the building industry, took action, and appointed five sub-committees, which will investigate and report on the following phases of the situation: (1) whether a demand for new buildings exists, and to what extent; (2) supply and price of building materials; (3) supply and price of labor; (4) the money situation, and (5) legislation. It is proposed that these committees make independent investigations and report regularly to the Committee of the Whole for final action.

The movement is a good one, and deserves the support of all interested in the present and future growth of the city. There is every reason to believe that it will not be confined to the local field alone, but because of its national importance, will be expanded until the principal municipalities throughout the country will be included within its scope.

That the movement is sincere is guaranteed by the personnel of those who are its supporters. The policy is not of the "star chamber" variety, but is open, and views of those in touch with the market are eagerly sought after so that a true and equitable solution may be reached. This policy is a correct and proper one, and should do much toward making the movement a success.

The question is an exhaustive one, for there

are many angles from which it must be considered. Buildings cannot be satisfactorily erected unless the returns show a profitable investment. Were any other premises taken, sooner or later would come a crash which would be felt throughout the country. The old order of things cannot longer remain in force. Rents must advance, or a new form of construction devised, which will make the present methods seem obsolete, and bring the new space within the present means of tenants.

The Committee realizes that the Government has the right to obtain first deliveries on all materials. This stand is the only proper one to take. Then come our Allies, for we are fighting for the same cause. After these two interests have been taken care of, then, and only then, private work can be considered. These unavoidable obstacles add to the difficulty in finding a solution, but the situation is not so bad as it might be, for every one knows the conditions.

A statement is credited to one of the authorities at Washington, in which he said that all private work should cease, and no new operations started. Without disloyalty we maintain that this is a wrong stand to take, for to successfully wage war home industries must be fostered and encouraged, otherwise the country will become stagnated and its economic structure undermined. The slogan, "Business as Usual," does not go far enough. Business speeded up to its utmost point should be the axiom, for by this means alone can the country prosper and obtain the wherewithal with which to combat its enemies. —"New York Record and Guide."

TO STANDARDIZE BUILDING METHODS AND SAVE WASTE.

At the recent convention of Real Estate men in Milwaukee models of houses and other buildings were exhibited to show how the use of standardized materials were an aid to building efficiency and especially, how costs could be reduced by saving unnecessary waste.

Plans along this line were discussed by Real Estate men from all parts of the country and are believed to be practicable. The idea would revolutionize the building business by manufacturing all building materials, every part and parcel which goes into houses, skyscrapers in uniform dimensions and sizes. Confusion and waste would then be very largely eliminated.

The same thing applies in the automobile industry as in building. If every car was made from raw material regardless of standard the waste would be enormous. On the contrary, autos are assembled from standardized units. If this were not the case many original designs would be the result and no uniformity.

In building why should not the same rules apply? Could not all parts be made and then assembled by the builder similar to the small boy playing with his blocks?

There is not as much waste, however, in the skyscraper as there is in building the small wooden structures and dwelling houses. A skyscraper is practically constructed and finished before the cellar is dug for the foundation. To those not of the architect's profession, it is interesting to watch a large skyscraper being delivered on endless processions of trucks and being erected and fitted together and never a mistake in calculation being made. Every girder, every pillar and every piece of stone-work has its place and fits it to the quarter inch. This feature could be accomplished throughout the building profession.

DEMOLITION OF BUILDINGS SHOWS WELL PRESERVED IRON

The Building Department of New York City made some interesting notes of value to the building world in their report of the demolition of the Hoffman House and Albemarle Hotel. Tall commercial buildings have since taken the place of these old landmarks.

Commenting on the conditions of the buildings, the report says: The building was located on the northwesterly corner of Broadway and Twenty-fourth street and consisted of a seven-story and cellar non-fireproof structure. Adjoining and surrounding the same was a twelve-story fireproof building used in connection with the hotel. This latter structure occupied an L-shaped lot with frontage on both Broadway and West Twenty-fourth street. Records in the bureau show construction to have been commenced in October, 1906, and completed in December, 1907.

In July, 1915, a permit was issued for the demolition of the building, making in all seven and a half years as the extreme age of the structure. The walls were of the skeleton type, twelve inches thick for the uppermost seventy-five feet of height and thence increased four inches in thickness for each lower sixty feet or fraction thereof. For floors, nine and ten inch terra cotta flat arches, sprung between steel beams, were used, with the usual two-inch cinder fill between the sleepers and a double wood flooring. The partition walls throughout the building were of terra cotta blocks plastered on both sides. All interior columns were incased in two-inch terra cotta block, while the customary four and eight inches of brickwork was used for exterior and wall columns.

The foundation consisted of concrete piers in open caissons carried down to rock at a depth of about thirty-seven feet below curb. It appears that during the construction of the foundation considerable ground water was encountered, necessitating the use of steel sheet piling.

A great deal of this sheeting has been uncovered, especially where the same interfered with new work now in progress.

The sheeting for the most part was intact and showed very little corrosion. In fact, in many places the smooth, even surface of the black iron was plainly visible. Whether the absence of rust was due to the comparatively short period that the sheeting was in place (a little over seven years) or whether it was due to the drawing away of the ground water by the new subway construction is hard to say. Evidently both contributed toward the preservation of the metal.

There's one variety of advertiser who gets our Angora. This is the chap who can't afford a large space and doesn't advertise, as a regular thing, because a small space "isn't seen." Some of the biggest advertisers we have started out with small space. Ask them whether the small space is seen. If advertisers had to wait until their businesses developed to full page stature before advertising, there'd be mighty few advertisers. The big man becomes big by growth. And growth starts with the seed.

MADE IN AMERICA.

To-day the air is surcharged with the spirit of American loyalty spreading broadcast over this great republic and it is in the heart and on the tongue of rich and poor alike. Let us turn our thoughts for a brief moment to the question of consistency in applying our loyalty. Do we find a bend in our line where perchance it has not occurred to us that a consistent expression of our loyalty called for its application in just that direction? What, for instance, about "Made in America?" Are we recognizing the necessity of our loyal support to American manufacturers and our industrial independence? Should this not mean as much to each of us as any branch of service to American welfare?

It has been easier to buy from foreign countries—special products like dyes and chemicals from Germany,—finished products from France and England. This state of affairs has grown up, not so much because of American inability to produce the goods as because so many people have not been willing to accept the American-made product. Let our loyalty make the stamp—MADE IN AMERICA—supreme to any foreign label. A wall paper house, for instance, which has hesitated to show their patrons anything but "imported" papers and textiles are now placing American made goods beside those which are imported.

As far as possible, use American-made products. With all the shipping trouble, French factories turned into Red Cross stations or munition plants, do not ask that goods be brought over the seas. If we are to have freedom it should be a real freedom. Industrial democracy is a power vastly greater than any political power, be-

cause it is closer to the real needs of the people.

Business must be kept going as usual, but back of the business must be kept uppermost the thought of the young American lives which are being offered, and how every protection and every safeguard which the power of America can effect, either political or industrial, must be thrown about them. The arm of Uncle Sam is strong and his reach is long, but it will be magnified a thousand fold if the individual thought of the people is back of that strong arm in supplying the principle of loyalty in every direction.

Every obstacle to industry puts a hardship on your boy in khaki. Every threatened strike or labor agitation may keep from him the shoes or the coat or the gun on which his life may depend.

It is the business of the patriotic man who is not called to the colors to keep a sane, stable balance at home which shall give the man at the front every assistance and protection: "Business as Usual" to stand back of the boy at the front.—"Keith's Magazine."

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as far as he could trace it, that he regarded the expenditure as money pretty nearly wasted.

BE PROGRESSIVE.

The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scrimper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

There never was, never will be, a better medium for the man who has something to sell to a given class of buyers than the trade paper whose circulation is limited to that class. Newspapers with their swollen circulations strike at best but a chance target here and there. The trade paper carries your rifle fire to targets exclusively. You can't miss,—if your ammunition's right.

Once-in-a-while advertising is like once-in-a-while eating. Good in its way, but decidedly not nourishing.

The prosperous, the great, the wise,
You may have noticed, advertise!

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Temporary Storage Building, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Public Works, care of Officers De Witt and Webb, Navy Yard, League Island, Philadelphia. Frame, 1 story, 120x260 feet, ready roofing, pine and cement floors, roof ventilators (lighting reserved). Owners taking bids, due November 21st. Wark-Yardley Co., 1737 Filbert street; E. J. Kreitzburg, 1345 Arch street; Austin Co., Bulletin Building; Lam Building Co., 1001 Wood street; McCloskey & Bahls, 1620 Thompson street; Thos. C. Trafford 1613 Sansom street, Philadelphia, are figuring.

Reservoir, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Dept., Washington, D. C. Reinforced concrete and steel, 2,000,000 gallons capacity. Owners taking bids, due November 26th. Edw. Fay & Son, 2 S. Mole street, and Warren Moore Co., Colonial Trust Building, are figuring.

Engine House and Machine Shop, Erie avenue yard, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Twelfth and Market streets, Philadelphia. Reinforced concrete, steel and brick, 1 story, 16 stalls, 200 feet circumference; machine shop, 1 story, 156x216 feet, J-M roof, cement and pine floors, rolled steel sash and skylights, fire doors, iron stairs, ornamental iron work, hollow tile, roof ventilators, waterproofing, stone foundations, wire work (heating and lighting reserved). Owners taking bids, due November 26th. Warren-Moore Co., Colonial Trust Building, are figuring, in addition to those previously reported.

Garage, Philadelphia. Engineers, The Hoffman Co., Finance Building, Philadelphia. Owner, name withheld. Brick and reinforced concrete, 2 stories, 107x214 feet, slag roof, elevators, rolled steel skylights, fire doors. Construction proposed. Architect taking approximate bids from the Conneen Cons. Co., 1737 Filbert street, Philadelphia.

Residences (12), Limekiln pike and Washington lane, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and stucco, stone foundations, 2 stories, 20x55 feet, slate roof, hot water heating, combination lighting. Plans in progress.

Residences (6), outside of Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut st., Philadelphia. Owner, Edw. F. Gorman, Fifty-second and Arch streets, Philadelphia. Stone foundations, stone fronts, brick walls, 2 stories, 20x45 feet, asphalt shingle roof, hot water heating, combination lighting, tile work, yellow pine floors. Plans about completed. Owner will take bids.

Garage (add.), northwest corner Twenty-second and Pine streets, Philadelphia. Architects, Hoffman Co., Finance Building, Philadelphia. Owner, name withheld. Stone founda-

tions, brick, 2 stories, 80x80 feet, slag roof, wood floors, steam heating, electric lighting, elevators, plumbing. Architects taking bids, due as soon as possible. Ketcham & McQuade, 1029 Brown street; Percival M. Sax, Franklin Bank Building; and H. C. Dahl, 231 South Eighth street, are figuring.

Store and Dwelling (alts. and add.), S. W. Cor. Sixth and Willow sts., Phila. Architect, I. W. Levin, 2434 South Eighth street. Owners, Brotherhood of Carpenters, 1134 S. Fifth street, Philadelphia. Brick, 3 stories, 17 x60 feet, consists of general alterations for club house, slag roof, hot water heating, electric lighting, marble work, fire escapes, maple floors, hollow tile, office partitions. Owners taking bids, due as soon as possible. L. Swerdlhoff, 228 South Fifty-ninth street, and M. Cotler, 1220 North Forty-second street, are figuring.

Toilet Rooms (4) (alt.), 406 Market street, Philadelphia. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Arch streets, Philadelphia. Plumbing, mill work and plastering, marble work. Owners taking bids, due November 22d. E. R. Hall, 34 S. Seventeenth street; F. L. Hoover & Sons, 1023 Cherry street, and F. A. Havens & Co., 845 S. Nineteenth street, Philadelphia, are figuring.

Garage, 1526-28-30 Passyunk avenue, Philadelphia. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owner, John Flaherty, care of Architects. Brick, 1 story, 45x147 feet, slag roof, steam heating, electric lighting, cement floors. Owner will take sub-bids.

Apartment House (alts.), 2016 North Broad street, Philadelphia. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, Martin Isen, 1902 North Eighth st., Philadelphia. Consists of new stairway, hardwood floors, electric lighting, plumbing, plastering and painting. Architects have received bids.

Battery and Store Room (add.), 1328 Race street, Philadelphia. Architect, Jos. A. Reletter, City Hall, Philadelphia. Owners, City of Philadelphia, Dept. of Public Safety, City Hall, Philadelphia. Consists of new partitions, plastering, cement floors, (1) roof ventilator. Owners have received bids.

Factory, 224 Pine street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, M. Kardon Paper Co., 224 Pine street, Philadelphia. Stone foundations, brick and steel, 1 story, 38x115 feet, slag roof, concrete floors, electric lighting. Plans about completed. Architect will take bids in a few days.

Bungalows (4), northwest corner Mt. Pleasant and Germantown avenues, Philadelphia. Architect, Orris S. Miller, Mt. Airy avenue, Germantown, Philadelphia. Owner, John S. Miller, 208 South Twelfth street, Philadelphia. Brick and stucco, 2 stories, 16x45 feet, slate and slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans in progress.

Store and Dwelling, 742 South Fourth st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, name withheld. Stone foundations, brick, 3 stories, 19½x63 feet, slag roof, hot water heating, electric lighting, tile and marble work, yellow pine floors, metal ceilings, flush bulks. Plans in progress. Architect will be ready for bids in one week.

Factory, Torresdale avenue and Orchid st., Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Pechin Belting Co., care of Mr. Andrew MacAllister, on premises. Stone foundations, brick, 1 story, 33x100 feet and 62x75 feet, L shaped, slag roof, concrete floors, steel work, millwork, roof ventilators. Owners taking sub-bids.

Store and Service Building, 1821 Chestnut street, Philadelphia. Architect, F. N. Greisler, Lafayette Building, Philadelphia. Owners, Willis-Winchester Co., 1001 Chestnut st., Philadelphia. Brick and stone, 2 stories, 20x100 feet, slag roof, cement and pine floors, vapor heating, electric lighting, tile and marble work, hollow metal sash and skylights, metal ath, meta weather strips, dampproofing. Architect is sub-letting all contracts.

Church, Garage and Parsonage, Seventh and Wyoming avenue, Philadelphia. Architects, Chas. W. Bolton & Sons, Witherspoon Building, Philadelphia. Owners, Gloria Dei Lutheran Church, care of Rev. Walter C. Sandt, 5204 North Carlisle street, Philadelphia. Stone, brick and stucco, 2 stories and basement, 38x60 feet, 1 story, 12x20 feet, and 3 stories, 32x54 feet, slate and composition roof, hot water heating, electric lighting, tile work, concrete chestnut and pine floors. Architects have received revised bids.

School Building, Oak Lane, Philadelphia, \$150,000. Architects, Magaziner & Eberhart, 603 Chestnut street, Philadelphia. Owners, Oak Lane Country Day School, Oak Lane, Philadelphia. Hollow tile or brick, 1 story, 1550x500 feet, several buildings connected by corridors. Preliminary plans in progress. Too early for details.

Residences (4), Graver's Lane and Ardleigh street, \$18,000. Architect, private plans. Owner, John Craig, 8521 Germantown avenue, Philadelphia. Brick, stucco and stone, 3 stories, 16x40 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile and marble work, stone foundations. Owner will build.

Garage, Almond and Westmoreland streets, Philadelphia, \$5,000. Architect, private plans. Owner, Ferdinando Pezzillo, 3347 Almond street, Philadelphia. Brick, 1 story, 40x80 feet, slag roof, cement floors, hot water heating, electric lighting. Owner will build.

Residence (alts. and add.), City Line and Limekiln Pike, \$6,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Stone, 3 stories, consists of stone work, shingle roof, electric lighting, hot water heating, tile work. Plans in progress. Will take bids about December 1st.

"TRIDENTS" FOR
WATER, OIL,
GASOLINE, BRINE,
ETC., ETC.

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IN PHILA. THAN
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PHILADELPHIA METER CO., 942 Real Estate Trust Building.

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THE
Hogg Construction Co., Inc.
1634 Sansom Street
Philadelphia

BUILDING } Alterations
Construction } Additions
New Buildings

"Personal Attention from
Foundation Walls to
Interior Trim."

GET OUR ESTIMATE BEFORE
AWARDING A CONTRACT

Store Building (alt.), Eleventh and Chestnut streets, northeast corner. Architect, private plans. Owner's name withheld. Brick and terra cotta, new front, 4 stories, cement, tile and pine floors, hot water heating, tile and terrazzo work (lighting reserved). John V. Speth & Co., 1714 Sansom street, taking sub-bids, due November 27th.

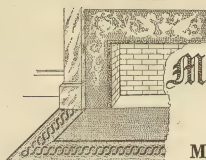
Apartment House (alt.), 42 South Nineteenth street, Philadelphia. Architect, private plans. Owner, J. Ethan Fieldstein, Hale Building, Philadelphia. Consists of interior alterations, 5 bath rooms, tile work, steam heating, electric lighting, tile floors. Plans completed. Architect will be ready for bids in a few days.

Store Building, 703 Chestnut street, Philadelphia. Owners, Haussmann & Co., 705 Chestnut street, Philadelphia. Brick, 4 stories, 19x104 feet, slag roof, maple, cement and composition floors, steam heating, electric lighting, metal lath, hollow metal sash, fire doors, metal bulks, metal ceilings. John V. Speth & Co., 1714 Sansom street, is taking sub-bids, due November 21st.

Store and Apartments, 3535 North Seventeenth street, Philadelphia. Architect, Wm. H. Wooters, 816 Allegheny avenue, Philadelphia. Owners, Hendricks Hardware Co., care of architect. Brick, 2 stories, 49x15 feet, stone foundations, slag roof, hardwood floors, electric lighting, stone front, cement basement floor, flush bulks, copper work, glazing, hot water heating. Plans in progress. Architect will take bids in about two weeks.

Residences (2), Limekiln Pike, near City Line, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Stone, 3 stories, 27x54 feet, single or slate roofs, hot water heating, electric lighting, hardwood floors, tile work. Plans about completed. Architect will take bids in about two weeks.

Residences (18), Cobb's Creek Boulevard, between Spruce and Pine streets. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner Herman Beckershoff, Sixty-second and Spruce streets, Philadelphia. Brick and stone, 2 stories, 154x63 feet and 134x83 feet, slate roofs, hot water heating, tile and marble work, combination lighting, garage in



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LOUIS PASQUALLI, Prop.

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MARBLE MOSAICS, TERRAZZO, CERAMICS, TILES

Office: 435 Green St. Factory: 432 Wallace St.
PHILADELPHIA, PENNA.

basements of corner houses. Owner is subletting all contracts.

Office Building (add.), 222-24 Walnut street, Philadelphia. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owners, Charles E. Mather & Co., 226 Walnut street,

Philadelphia. Reinforced concrete, brick and stone, second story addition, 35x50 feet, J-M roof, hollow tile, metal lath and window guards. Architect taking bid from A. R. Raff Const. Co., 1635 Thompson street, due as soon as possible.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence and Garage, Rising Sun Lane and Vincent street, \$5,300. Architect, private plans. Owner, C. Lutz, 1121 Cottman street, Philadelphia. Brick, 2 stories, 16x45 feet, and 1 story, 16x20 feet, slate and slag roof, hot water heating, electric lighting, hardwood and cement floors. Contract awarded to M. Stevens, 910 Fanshaw street, Philadelphia.

Garage, 1522 Louder street, Philadelphia. Architect, Wm. H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Simon J. Kline, on premises. Stone foundations, brick, 1 story, 20x40 feet, slag roof, cement floors, hot water heating, electric lighting, iron fence. Contract awarded to M. Berndt & Sons, 1037 Tioga street, Philadelphia.

Residence (alts.), 8836 Germantown avenue, \$2,000. Architect, private plans. Owner, C. N. Williams, Twenty-second and York streets, Philadelphia. Interior alterations, plastering and millwork, hardwood floors. Contract awarded to Wm. J. Gruhler & Co., 219 East High street, Germantown.

Industrial Plant, Twentieth and Cambria streets, Philadelphia, \$100,000. Architects, Wm. Steele & Sons Co., 30 South Fifteenth street, Philadelphia. Owners, B. Helfield Co., 435 North Broad street, Philadelphia. Reinforced concrete and brick. Factory building, 5 stories, 280x100 feet; foundry building, 1 story, 280x100 feet; storage warehouse, 1

story, 280x100 feet; power plant and garage, 1 story, slag roof and composition roof, steam heating, electric lighting, rolled steel sash, hollow metal skylights, fire doors, cement and maple floors, hollow tile, metal lath, elevators, waterproofing, ornamental iron work. Contract awarded to Wm. Steele & Sons Co., 30 South Fifteenth street, Philadelphia.

Garage, Columbia avenue and Croskey street, Philadelphia, \$8,000. Architect, private plans. Owner, Estate of John S. Serrill, Fifteenth street, below Glenwood avenue. Brick (slow burning), 1 story, 66x171 feet, slag roof, cement floors (lighting, heating, plumbing and gasoline storage system reserved). Contract awarded to Henry P. Schneider, 3717 O'York Road, Philadelphia.

Machine Shop, Storage Building and Garage, Coral and Wain streets, \$25,000. Architect, private plans. Owners, Hulton Printing Processing and Dyeing Co., 3851 Frankford avenue. Brick and concrete, 1 story, 211x73 feet, slag roof, cement floors, heating and electric lighting extension, rolled steel sash. Contract awarded to F. Crompton & Bro., 4614 Oakland street, Frankford.

Temporary Shed and Platforms, Forty-seventh and Gray's Ferry avenue. Architect, private plans. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Consists of shed and platforms, to meet require-

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BOWERS BROS. & CO.

1829 Ludlow Street
Philadelphia, Pa.

A. B. SEE ELECTRIC ELEVATOR CO.

507-8 Colonial Trust Building, Philadelphia

**ELECTRIC ELEVATORS OF HIGHEST
EFFICIENCY FOR EVERY SERVICE.**

LET US SHOW YOU.

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CONVENIENCES IN POPULAR DEMAND

Prospective tenants and buyers want to know how they are going to keep warm in the chilly mornings and evenings of the early Fall and late Spring, when it isn't practical to have the furnace going.

If you can point to a Baseboard Gas Outlet in each room to which Gas Heating Stoves can be readily connected your Prospect is then assured of a quick, clean and economical method of getting the desired auxiliary heat.

'Phone or write to the Builders' and Operators' Division.

134-42 North 13th Street

Bell, Locust 1300—PHONES—Keystone, Race 30

The United Gas Improvement Co.

BUILDERS

Before your present company has a chance to say "No," ask me about placing your surety bonds. I'll give you the best of service, relieve you of all details, insure your getting lowest rates and protect you in every way. Get REAL SERVICE.

HARRIS J. LATTA

Pennsylvania Building

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Soundings

JOHN B. RULON
1355 Colwyn Street
Philadelphia, Pa.

Staman & Dickey Co.

Lighting Fixtures

30 South Sixteenth Street

Philadelphia

ments as directed at building by owners. Contract awarded to Brann & Stuart, Real Estate

Trust Building, Philadelphia. Work under supervision of owners.

PENNSYLVANIA

Construction News

Technical School (add.), Harrisburg, Pa., \$250,000. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. D. Hammelbaugh, secretary, Harrisburg, Pa. Brick, 4 stories. Sketches completed. Too early for details.

Junior High School, Camp Curtin, Harrisburg, Pa. Architect, M. I. Kast, Commonwealth Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. D. Hammelbaugh, secretary, Harrisburg, Pa. Brick, 2 stories, 160x100 feet, composition roof, wood floors (steam heating, electric lighting and plumbing reserved). Plans about completed. Owners will take bids in about one week.

Junior High School, Nineteenth and Chestnut streets, Harrisburg, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. D. Hammelbaugh, secretary, Harrisburg, Pa. Brick, 3 stories, 170x190 feet, composition roof, steam heating, electric lighting, tile work, hollow tile, metal lath, hollow metal skylights, fire doors (plumbing, heating, ventilators, electric wiring, separat bids). Owners taking bids, due November 23rd at 3.30 P. M. August Wildman, 2203 North Third street, Harrisburg, Pa.; Strayer & Eshelman, Lemoyne, Pa.; Stephenson Bros., Penbrook, Pa.; Menough & Son, York, Pa.; P. W. Finn & Son, Masonic Temple, Altoona, Pa.; Dawson Const. Co., May Building, Pittsburgh, Pa.; George W. Kelly, 22 John street, Yonkers, N. Y.; D. S. Warfel, 958 East Orange street, Lancaster, Pa., and the Beard Const. Co., Reading, Pa., are figuring.

Houses (108), Wharton avenue and Ninth street, Fifth Ward, east of present operation, Chester, Pa. Architect, private plans. Owner, W. G. Price, Law Building, Chester, Pa. Brick, 2 stories, 6 rooms and bath, slag roofs, pine floors, hot air heating, electric lighting. Owner will sub-let.

Residences (6), Twentieth street, Chester, Pa. Architect, private plans. Owners, Arthur Machin Co., Chester, Pa. Brick, 2 stories, 16x54 feet, slag and slate roof, pine floors, hot water heating, electric lighting. Work contemplated.

Store and Apartments (6), Chester, Pa. Architect, C. D. Thompson, Ford Building, Wilmington, Del. Owner's name withheld. Brick, 2 stories. Plans in progress. Too early for details.

Residences (4), Brookline, Delaware County, Pa. Architect, private plans. Owner, John

V. Speth, 1714 Sansom street, Philadelphia. Frame and stucco, 2½ stories, 32x26 feet, and 1 story, 14x10 feet, shingle roof, hot water heating, combination lighting, tile work, hardwood and parquetry floors. Owners taking sub-bids.

Residence, Springfield, Pa., \$8,000. Architect, Addison H. Savery, Stephen Girard Building, Philadelphia. Owner, Thomas G. Allen, 104 South Sixty-second street, Philadelphia. Stone, 2½ stories, 32x42 feet, slate roof, hardwood floors, electric lighting. Architect taking approximate bid from J. Howard Roberts, Lansdowne, Pa.

Factory Buildings (5), York, Pa. Architect, private plans. Owners, Diamond Chain Co., York, Pa. Brick (fireproof), 3, 1 story, 400x50 feet; 2, 4 stories, 250x60 feet, slag roof, cement floors, metal lath, elevators (heating undecided), electric lighting, rolled steel sash and skylights, fire doors. Owners taking approximate bids.

Box Factory, Lancaster, Pa. Architect, Malvern Evans, 10 East Orange street, Lancaster, Pa. Owner, Frank Bowman, Lancaster, Pa. Brick, 1 story, 50x130 feet, composition roof, cement floors, steam heating, electric lighting. Plans in progress.

Factory, Lancaster, Pa. Architect, Malvern R. Evans, 10 East Orange street, Lancaster, Pa. Owners, Rowe Motor Co., Lancaster, Pa. Stucco, 1 story, 200x120 feet, composition roof, cement floors, steam heating, electric lighting. Architect taking sub-bids.

Building, No. 62 (add.), Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Steel, 1 story, 150x50 feet, and 1 story, 80x20 feet, steel roof, cement floors, metal lath, roof ventilators, rolled steel sash, fire and hollow metal doors. Owners have received bids.

Summer Residence, Trevos, Pa. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, J. Sidman Selby, care of architect. Frame, 2 stories, 21x25 feet, shingle roof, pine floors. Architect has received bids.

Church and Sunday School, Allentown, Pa., \$50,000. Architect, A. A. Ritcher, Reading, Pa. Owners, Emmanuel Reformed Church, Allentown, Pa. Brick, stone trimming, 1 story and basement, 56x90 feet, slate roof, vapor heating, electric lighting, hardwood floors. Preliminary plans completed. Bids will be taken in spring of 1918.

Twin Residence, Speedway Park, Pa. Archi-

**SCALES
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VALVES**

The Fairbanks Company
Corner 7th and Arch Sts.
Philadelphia, Pa.

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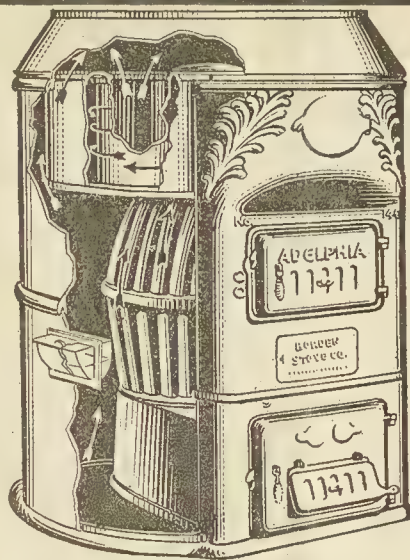
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in action, heating our large demonstration house with a saving of 35% of Coal.

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A few "Reasons Why" you should specify Adelphia Warm Air Furnaces

*"The HEALTHFUL heat is fresh Warm Air
ADELPHIA needs but little care."*

ADELPHIA Furnaces are:

Easy to Operate; Economical in Fuel Consumption; Perfect in Construction and Supreme in giving satisfaction.

The trade-mark name ADELPHIA on your heating appliance is our guarantee that "honest value" is beneath the name plate.

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We plan, design and install

HARRISON, MERTZ & EMLLEN, Inc.

Formerly HARRISON & SCHREIBER

725-26 Commercial Trust Building, Philadelphia

Pennsylvania Contracts Awarded

Residence, Sixteenth and Foster streets, Harrisburg, Pa. Architect, private plans. Owner, George Flickinger, Sixteenth street, Harrisburg, Pa. Brick, 2½ stories, 28x36 inches, slate roof, hardwood and pine floors, hot water heating, electric lighting. Contract awarded to H. A. Sherk, State street, Harrisburg, Pa.

Foundry Building, Seventh and Emerald streets, Harrisburg, Pa., \$5,000. Architect, private plans. Owners, W. T. DeHart & R. D. Stetler, Harrisburg, Pa. Brick, 1 story, 35x100 feet, slag roof, cement floors, electric lighting. Contract awarded to M. H. Gettys, Harrisburg, Pa.

Pumping Station (add.), near Phoenixville, Pa., \$12,000. Engineers, American Pipe and Const. Co., care of Mr. La Deux, 112 North Broad street, Philadelphia. Owners, Springfield Consolidated Water Co., Lansdowne, Pa. Brick, steel and stone, 1 story, 26x55 feet, slate roof, cement floors. Contract awarded to Wark-Yardley Co., 1737 Filbert street, Philadelphia.

Church (alt. and add.), York, Pa. Architect, John B. Hamme, York, Pa. Owners, Trinity Lutheran Congregation, York, Pa. Frame, 30x30 feet, shingle roof, pine floors. Contract awarded to Spar Bros., York, Pa.

Fire House, Lititz, Pa. Architect, Henry Y. Shaub, Lancaster, Pa. Owners, Borough Council of Lititz, Lititz, Pa. Brick, 2 stories, 28x100 feet, slag roof, concrete floors, steam heating, electric lighting. Contract awarded to Hershy Lehman Co., Lititz, Pa.

Factory Building, Mifflinsburg, Pa. Architect, John A. Dempwolf, Cassatt Building, York, Pa. Owners, Automobile Body Works, Mifflinsburg, Pa. Brick (slow burning construction), 4 stories, 60x300 feet, slag roof, steam heating, electric lighting, fire doors, pine floors, elevators. Contract awarded to Sauer & Moore, Milton, Pa.

Residence (alt. and add.), Lititz, Pa. Architects, Estep & Shaub, Lancaster, Pa. Owner, H. J. Pierson, Lititz, Pa. Consists of general interior alterations, slate roof, bi-loop vacuum heating, electric lighting, tile and marble work, hardwood floors (heating, plumbing, lighting fixtures and hardwood floors reserved). Contract awarded to Hershy Lehman & Co., Lititz, Pa.

Coal Transfer Trestle, Rutherford, Pa., \$15,000. Architect, Samuel T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia and Reading Railway Co., Lebanon Valley Branch, Harrisburg Division, Reading Terminal, Philadelphia. Concrete, steel and timber, 94 feet long. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

Residence (add.), near Newtown, Bucks County, Pa., \$4,900. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, J. J. Tierney, Newtown, Pa. Stone, 2½ stories, 33x15 feet, shingle roof, pine floors. Contract awarded to John K. LaRue, Langhorne, Pa.

Residence (add.), near Newtown, Bucks County, Pa., \$4,900. Architects, Fowler & Seaman, Broad Street Bank Building, Trenton, N. J. Owner, J. J. Tierney, Newtown, Pa. Stone, 2½ stories, 33x15 feet, shingle roof, pine floors. Contract awarded to John K. LaRue, Langhorne, Pa.

NEW JERSEY Construction News

Municipal Tuberculosis Hospital, Mercersville Road, Trenton, N. J. Architect, A. W. Kleeman, First National Bank, Trenton, N. J. Owners, City of Trenton, care of F. W. Donnelly, Mayor, City Hall, Trenton, N. J. Brick, 1 and 2 stories, 200 feet front. Plans in progress. Too early for details.

Residence, Atlantic City, N. J., \$7,500. Architect, Seward G. Dobbins, 10 South Virginia

avenue, Atlantic City, N. J. Owner, Mr. Cohen, Atlantic City, N. J. Brick and stucco, 2 stories, 26x40 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Plans in progress.

Residences (2), Stone Harbor, N. J. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, Mrs. Moore, care of architect. Frame, 2 stories, 16x42 feet, shingle roof, pine floors. Plans in progress.

NEW JERSEY Contracts Awarded

Residence (alt. and add.), South Chelsea avenue, Atlantic City, N. J. Architect, V. B. Smith, Sheen Building, Atlantic City, N. J. Owner, Wm. Holten, care of architect. Frame, 3 stories, interior alterations, electric light-

ing, tile and marble work. Contract awarded to Wesley B. Porer, Atlantic City, N. J.

Residence and Garage, Dudley and Ventnor avenues, Atlantic City, N. J., \$22,000. Architect, V. B. Smith, Sheen Building, Atlantic

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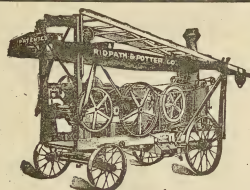
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City, N. J. Owner, G. J. Costello, Ventnor, N. J. Stucco, 3 stories, 30x50 feet, slate roof, hardwood floors, hot water heating, electric lighting, tile work gasoline storage system. Contract awarded to Wesley B. Porch, Atlantic City, N. J.

Factory, Yardville, N. J., \$20,000. Architect, J. O. Hunt, 114 North Montgomery st., Trenton, N. J. Owners, Zee Zee Tire and Rubber Co., Trenton, N. J. Brick and concrete, 1 story, 50x83 feet, slag roof, concrete floors, steam heating, electric lighting, rolled steel

sash and skylights, fire doors. Contract awarded to Martin Bros., Yardville, N. J.

Signal Bridges (5) and Repairing (3), New York Branch, between Delaware River and Stillman, N. J. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Co., Reading Terminal, Philadelphia. Consists of erecting new signal bridges and reconstruction 3 old signal bridges. Contract awarded to Belmont Iron Works, Twenty-second and Washington avenue, Philadelphia.

Miscellaneous Construction News

Pay Office, Wilmington, Del. Architect, private plans. Owners, Harlan & Hollingsworth, Wilmington, Del. Brick, 1 story, 57x30 feet, slag roof, pine floors, electric lighting. Owners have received bids.

Factory, Vandevere avenue and Jessup st., Wilmington, Del. Architect, Leon W. Crawford, Wilmington, Del. Owners, Diamond Ice and Coal Co., Wilmington, Del. Brick, 1 story, 100x250 feet, composition roof, concrete floors, electric lighting. Architect taking bids, due as soon as possible. H. D. Haddock & Co., Chas. Bryce, J. A. Bader, and F. E. Healy & Son, all of Wilmington, Del., are figuring.

Residence, Warrenton, Va. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Mrs. F. E. Bowman, Warrenton, Va. Stone, brick and stucco, 2 stories, 68x28 feet, shingle roof, vapor heating, electric lighting, tile work, oak and pine floors, hollow tile, dampproofing. Revised plans in progress. Architects will take bids in about one week.

Residence, Stable, Garage and Farmer's Cottage, Warrenton, Va. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, S. S. Preston, Otis Building, Philadelphia. Stone and brick, 3 stories, 30x84 feet, 1½ stories, 36x44 feet, 1½ stories, 21x34 feet, and 2 stories, 23x37 feet, slate and tin roof, oak, pine and cement floors, vapor heating, electric

lighting, tile and marble work. Revised plans in progress. Architects will take bids in about one week.

Machine Shop, Navy Yard, Washington, D. C. Architect, private plans. Owners, U. S. Government, F. R. Harris, Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, 5 stories, 502x162 feet, gypsum composition roof, steam heating, electric lighting, pine floors, hollow tile, elevators, rolled steel sash, fire doors, hollow metal doors, ornamental iron work, wire work. Contract awarded to the Industrial Engineering Co., 30 Church street, New York City.

Garage and Sales Building, Second and French streets, Wilmington, Del., \$30,000. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, John P. Cahill, Wilmington, Del. Brick (slow burning construction), 3 stories, 66x65 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, elevators, metal ceilings. Contract awarded to Joyce & Kerrigan, 116 North Broome street, Wilmington, Del.

Building No. 105, Brass Foundry and Optical Shop, Navy Yard, Washington, D. C. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington,

D. C. Brick, steel and reinforced concrete. Brass foundry, 1 story, 7 bays, 54x280 feet; optical shop, 5 stories, 60x34 feet, and fifth story addition to present building, 64x52 feet, slag roof, concrete and maple floors, heating extension, electric lighting, hollow metal sash, hollow metal doors, hollow tile, metal lath, roof ventilators, iron stairs, ornamental iron work, wire work. Owners taking bids, due November 26th. Warren-Moore Co., Colonial Trust Building, Philadelphia, are figuring.

Bank, New Castle, Del. Architect, Charles R. Peddle, 134 South Fourth street, Philadelphia. Owners, New Castle Trust Co., New Castle, Del. Brick and marble, fireproof, 1 story and mezzanine, 24x80 feet, slag roof, marble and composition floors, hot air heating, electric lighting, tile and marble work, bank fixtures, metal lath. Architect taking bids, due November 27th. Metzger & Fisher, Otis Building; Wills-Ludwick Co., 34 South Seventeenth street, and James H. Wells, Otis Building, Philadelphia, and A. S. Reed Bros. Co., Wilmington, Del.; W. D. Haddock & Co., Wilmington, Del., and J. E. Healy & Son, Wilmington, Del., are figuring.

Maryland

Construction News

Supply Station and Warehouse, Curtis Bay, Md., \$7,000,000. Architect, private plans. Owners, U. S. Government, Quartermaster's Department, Washington, D. C. Will consist of concrete and steel warehouses, piers, wharves, grading, etc. Plans in progress. Too early for details.

Buildings (12), Turners Station, Md., \$500,000. Architect, private plans. Owners, Bartlett-Hayward Co., Scott and McHenry streets, Washington, D. C. steel and concrete, hollow tile and brick, slag and asbestos shingle roof, composition flooring, electric work, steam heating, mill work, plumbing and painting. James L. Parson, Southern Building, Washington, D. C., taking sub-bids on all lines.

Dwelling, Garrison and Piedmont avenue, Baltimore, Md. Architect, J. E. Nelker, Professional Building, Baltimore, Md. Owner, George H. Textor, Baltimore, Md. Stone foundations, brick and frame, 1½ stories, slate roof, plastering, painting, electric lighting, hot water heating, tile work. Architect taking bids. E. G. Turner, 15 Fayette street, Baltimore, Md., is figuring.

Electric Power, Water and Heating Extensions, Naval Academy, Annapolis, Md., \$500,000. Engineer, Charles L. Reeder, Park avenue and Saratoga street, Baltimore, Md. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Washington, D. C. Plans in progress. Owners will advertise for bids shortly.

Maryland

Contracts Awarded

Boiler House, Gunpowder and Hamburg streets, Baltimore, Md., \$4,000. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owners, Bartlett-Hayward Co., on premises. Concrete floorings, brick, 2 stories, 44x46 feet, slag roof, electric lighting, plumbing. Contract awarded to Morrow Bros., Philcity Building, Baltimore, Md.

Dwellings (7), Thirty-fourth street, near Chestnut avenue, Baltimore, Md., \$15,000. Architect, Frederick E. Beall, St. Paul street,

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Baltimore, Md. Owner, Charles E. Litsinger, 3678 Falls Road, Baltimore, Md. Brick and stucco, 2 stories, 15x46 feet, slag roof, steam heating, electric lighting, plastering, plumbing. Owner will sub-let.

Warehouses (3), Turners' Station, Md. Architect, private plans. Owners, U. S. Government, Ordnance Department, Army Department, Washington, D. C. Concrete foundations, 1 story, frame, asbestos walls and roof, electric lighting. Contract awarded to H. D. Watts & Co., Garrett Building, Baltimore, Md.

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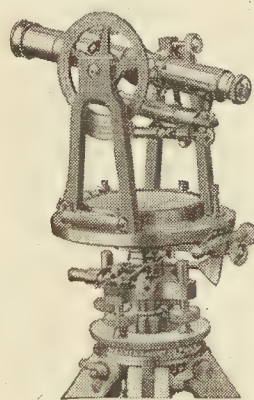
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Philadelphia

Garage, 920 South Fiftieth street, \$950. Mary T. Dinton (O), 2210 Lombard street. Ed. Holland (C), Upper Darby. Brick, 1 story, 18x18 feet, slag roof.

Garage, Belfield avenue and S. High st., \$5,100. American Ice Co. (O), Sixth and Arch streets. Herman Voight (C), 1251 N. Twenty-eighth street. Brick, 1 story, 32x102 feet.

Storehouse, 1744 Sedgley avenue, \$450. J. Shannon (O), 1744 Market street. M. Moister Co. (C), 3931 North Fifth street. Iron on iron, 16x20 feet.

Storehouse, Torresdale avenue and N street, \$1,020. Lewis Walter (O), on premises. M. Moister & Co. (C), 3931 North Fifth street. Iron on iron, 20x46 feet.

Garages, 2326 Emerald street, \$1,000. H. Weedman (O), on premises. E. F. Cream & Son (C), 2611 South Sartain street. Brick, 1 story, 65x15 feet, slag roof.

Factory, Armiano and Huntingdon streets, \$30,000. John T. Lewis & Bro. Co (O), Lafayette Building. Turner Concrete Steel Co. (C), 1713 Sansom street. Reinforced concrete, 3 stories, 40x121 feet, slag roof.

Garage, 1522 W. Loudon street, \$1,425. Simon Klein (O), on premises. Bamo L. Sin (C), 1037 W. Tioga street. Brick, 1 story, 19x37 feet, slag roof, cement floor.

Green House, 7100 Issahickon avenue, \$2,500. Fd. Wolstenholm (O), on premises. A. L. Fretz (C), 1215 Filbert street. Stone base, iron and glass top, 12x40 feet.

Freight Station, Abbotsford and Twenty-ninth streets, \$14,200. Penna. R. R. Co. (O), Broad Street Station. Robbins Cont. Co. (C),

Lafayette Building. Brick, 1 story, 38x52 feet, platform, 14x160 feet, slate roof.

Dwelling and Garage, Rising Sun and Vincent street, \$5,300. C. Lutz (O), 1121 Cottman street. M. Stevens (C), 910 Fanshaw street, Fkd. Brick, 2 stories, 16x45 feet, slate roof, hot water heating, slag roof; 1 story, 16x20 feet.

Storage Building, Willow and Seventh sts., \$400. General Elect. Co. (O), on premises. Wm. Steele & Sons Co. (C), 32 South Fifteenth street. Iron on iron, 10x4 feet.

Garage, Westmoreland and Kipp streets, \$850. Estella Douglass (O), on premises.

Alterations and Additions

Church, Twelfth and Fitzwater streets, \$2,000. Greek Orthodox Community (O), on premises. John Duncan (C), 920 Walnut st. General repairs.

Dwelling, 2021 Spring Garden street, \$1,500. M. Dawson (O), on premises. A. MacTarish (C), 1515 Pine street. Brick, 1 story, 17x12 feet.

Hotel, Germantown avenue and Dauphin st., \$2,500. W. M. Frame & Sons, Inc. (O and C), 4437 Frankford avenue. Alterations. \$4,400. P. O. Derr (O), on premises. Harry Gill (C), 2515 Germantown avenue. Fire repairs.

Dwelling, 1428 North Second street, \$460.

Bushnill Bros. (C), 2146 E. Norris street. Brick, 1 story, 12x16 feet, slag roof.

Chimney, Thirty-first and Jefferson streets, \$4,790. F. A. Poth & Son (O), Thirty-first and Jefferson streets. H. R. Hemick (C), 21 South Twelfth street. Brick, 100 feet high.

Shed, 3461 Janney street, \$350. And. Bellman (O), Camden, N. J. W. R. McMahon (C), 2749 Newkirk street. Open shed, 30x36 feet, slag roof.

Garage, Wissahickon and Cliveden streets, \$1,500. E. L. Seeds (O and C), on premises. Stone, 1 story, 21x27 feet, slate roof, cement floor.

Garage, Fifty-ninth and Chestnut streets, \$600. Geo. Hansen (O), on premises. J. D. Fisher (C), 5424 Thompson street. Brick, 1 story, 12x14 feet, slag roof, cement floor.

Boat House, Armdale and Milnor streets, \$600. T. Maddones (O and C), 2027 Orthodox street. Frame, 1 story, 16x60 feet, slag roof.

Garage, Thirty-first and Wharton streets, \$600. S. M. Allen (O), 3100 Wharton street. E. M. Evans (C), 338 South Lawrence street. Brick, 1 story, 16x16 feet, slag roof.

Wm. Mullen (O), on premises. Wm. Freiburg (C), 2553 North Fifth street. Brick, 1 story, 13x12 feet, slag roof.

Factory, Mascher and Turner streets, \$1,500. D. M. Hess Est. (O), 904 Walnut st. Harry Drake (C), 3139 Frankford avenue. Alterations.

Factory, 1710-12 North Front street, \$300. Rob. M. Green (O), 1415 Vine street. John M. Smith & Son (C), 1415 Spring Garden st. New tank and beam.

Store and Dwelling, 3051 Germantown ave., \$335. S. Schultz (O and C), 3030 N. Sixth street. Alterations.

Factory, 148 North Fifth street, \$900. Jos.

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Shapiro (O and C), 152 North Fifth street. Steam heating boiler installed.

Shop, 816 South Eleventh street, \$450. John Trainor (O), 1242 South Broad street. F. J. Mahon (C), 2134 North Ueber street. New slag roof.

Factory, Glenwood avenue and Second st., \$5,000. Scham & Uhlinger (O), Glenwood and American street. Wm. Steele & Sons Co. (C), 32 South Fifteenth street. New tank and fire tower and alterations.

Garage, 1310 North Fourth street, \$900. Harris Brody (O), 1322 North Fourth street. John Mallo (C), 1329 North Fifth street. Hot water heating.

Dye House, Collins and Allegheny avenue, \$1,100. General Processing Co. (O), Collins and Willard streets. J. Soux (C), 3731 York road. New roof and skylight.

Boiler Room, Fifty-eighth and Hoffman avenue, \$550. F. H. Thole (O), 800 Penn Square Building. W. R. Potts (C), Brooklyn, Del. Co. Brick, 1 story, 26x7 feet, slag roof.

Dwelling, 2111 North Second street, \$500. Fox Chain Block Co. (O), 139 W. Oxford st. A. R. Raff Const. Co. (C), 1635 Thompson st. New bulk window and alterations.

Dwelling and Garage, 6109 Oxford street, \$1,600. Geo. W. Kirchner (O), on premises. John S. Walter (O), Beechwood, Del. Co. Brick, second story addition, 10x20 feet, tin roof; brick, 1 story addition, 17x20 feet, tile roof.

Boiler Room, Twelfth and Carpenter streets, \$5,000. John Williams Mfg. Co. (O), on premises. Frick Grate and Bar Co. (O), 421 Chestnut street. Resetting 3 R. F. boilers.

Dwelling, 1155 South Twelfth street, \$150. Tony Dessano (O), on premises. A. De Marco (C), 1224 Christian street. Brick, 2 stories, 12x16 feet, slag roof.

Store, 2204 Market street, \$300. John Stanzo (O), 2202 Market street. Antonio Cuffola (C), 704 Christian street. New flush bulk.

Dwelling, 3121 Almond street, \$300. John Millivor (O), on premises. Frank Boffa (C), 3131 Filton street. Alterations.

Nurses Home, 4048-50 Ogden street, \$1,800. West Phila. Hospital for Women (O), 4035

Parrish street. F. L. Hoover & Son (C), 1023 Cherry street. Interior alterations.

Club House, Juniper and Arch streets, \$4,600. B. P. O. Elks (O), on premises. John N. Gill Co. (C), Otis Building. Fire repairs.

Store and Dwelling, Lehigh and Emerald streets, \$800. P. H. Connelly (O), Fifth and Allegheny avenue. C. Bonner (C), 2838 N. Front street. Brick, 2 stories, 16x12 feet, slag roof.

Stable, 2319 Sedgley avenue, \$3,397. H. L. Witte (O), Baltimore. Richard McGlafery (C), 2306 W. Twenty-sixth street. Brick, 1 story, 27x27 feet, 20x18 feet, open shed, 18x60 feet, slag roof.

Sunday School, Ridge and Lyceum avenue, \$400. Trustees R. B. Church (O), on premises. H. A. Hayes (C), 6830 Ridge avenue. Alterations.

Store and Dwelling, 1530 E. Montgomery avenue, \$900. Morris Factor (O), 1531 E. Montgomery avenue. Scheechman Bros. (C), 1734 North Seventh street. New flush bulk.

Storage, Leferer and Salmon streets, \$500. Joe Schaffer (O), on premises. Berkelback Co. (C), 4608 Richmond street. Frame, 1 story, 1666x24 feet, slag roof.

Garage, Main street and Walnut lane, \$500. Rob Kroob (O), 3424 North Twenty-first st. C. L. Cuthbertson (C), 334 Roxborough ave. Alterations.

Factory, Main street and Green lane, \$5,000. J. M. Adams Co. (O), on premises. El. L. Cuthbertson (C), 334 Roxborough avenue. New roof, fire repairs.

Store, 1527 abut street, \$650. Hughes & Muller (O), on premises. The Hogg Const. Co. (C), 1634 Sansom street. Alterations.

Shop, 9499 North Twelfth street, \$2,000. David Dunn (O), 1136 Girard avenue. J. Dondo (C), 855 North Fifth street. Brick, 1 story, 16x10 feet, slag roof.

Store, 209 Dock street, \$2,000. Russel Wilson (O), 116 Dock street. H. C. Dahl (C), 231 South Eighth street. Brick, 1 story, 14x14 feet, slag roof and alterations.

Store and Dwelling, 3079 Kensington avenue, \$1,500. N. M. Horner (O), Bryn Mawr, Pa. E. J. Shuttleworth (C), 3054 Kensington avenue. New bulk and alterations.

Division prepares the typical plans of the cantonments, including water distribution, internal sewer and draining lines, lighting distribution, roads and minor utilities. The Material Division makes recommendations as to placing all contracts for material to be purchased by this organization. The officer in charge is in close touch with the supply committees of the National Munition Board and the Transportation Committee, doing everything to facilitate rapid delivery of material to the contractors. The Construction Division is in charge of all operations in the field, the officer in charge being in constant communication with the Constructing Quartermaster in charge of each cantonment and with the contractors. The Accounting Division supervises accounting matters and general administration of the office, the accountants at each cantonment who handled all payments eing under the officer in charge. All legal matters are handled by this division.

The ideal plans for cantonments as originally laid out by the ar Department, known as the straight line arrangement of units and the U-shape arrangement of units, were not used, as it was found necessary to alter these schemes to fit the topography and special conditions that developed in each camp. The unit scheme, the elemental principle on which the camps were developed, comprising a principal street with a parallel service street with connecting streets between, was adhered to. In general, the unit consists of a central block between the principal street and service street and two cross streets. This contains barracks, lavatories, in some cases wagon sheds and some minor buildings. On the opposite side of the principal street are located the officers' quarters of the various divisions of the service, administration quarters, etc. To the other side of the service street are placed stables, wagon sheds, hangars, shops, stores, etc. As long as the units are joined so that the principal street and the service street are continuous and at the easiest possible grade, the arrangement and the grouping of the units is entirely flexible and could generally be adapted to the most difficult conditions of site without excessive cost. The units are grouped in small divisions with fire brakes between. The Constructing Quartermaster had the responsibility of adapting the plans to the topographical conditions of the cite. The impossibility of using the ideal arrangement of the units was one big reason for letting the contracts for the cantonments on the percentage basis and because of the varying conditions in different cantonments, the cost of the construction is reported to have varied from \$5,200,000 the lowest figure, to \$7,800,000, the highest.

Wood is the principal material entering into the construction of the 30,000 cantonment buildings. Of Southern pine alone, 300,000,000 feet were used, and this was bought by the Government at an average price of \$20.00

NATIONAL ARMY CANTONMENTS

The organization of the War Department for construction work pertaining to the 32 cantonments for housing the National Guard and National Army, also emarkation depots, warehouses and other buildings, is handled by

the office of the cantonment construction division of the Quartermaster's Department. Brigadier-General Littell is the head of this organization, the work of which is divided among several divisions. The Engineering

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per thousand. It took 100,000 carpenters to put the buildings up in the required time.

Camp Pike.

"Too marvelous for comprehension," said Major General Samuel E. Sturgis, after his first inspection of the Camp Pike. There the contractors broke ground on July 9th. Then the reservation near Little Rock, Arkansas, was a wilderness of rocks and scrub oak, the nearest railroad was seven miles away, and it was not until July 16th that tracks of the Missouri Pacific, blasting their way through the rocks, reached the cantonment. Now its 1,663 buildings furnish accommodations for 43,900 men and 17,800 horses.

The work was accomplished in spite of unusual difficulties in engineering and construction. Contrary to the general rule of selecting level sites for cantonments, Camp Pike is on a series of hills, and full of steep grades. Almost every foot of land had to be cleared of a comparatively heavy growth of forest. The excavating averaged seventy-five per cent. rock, and was of the most difficult kind. Cuts ran as deep as 27 feet, and in one section the excavating for sewers averaged a depth of 18 feet for over a mile. There was no natural water supply, not even a spring on the reservation—the nearest artificial supply being eight miles away. There was no railroad, and for weeks all material and all labor had to be hauled from Little Rock, eight miles away. Government work at Fort Riley and Louisville had started, in June, and had drained the territory of both labor and material, and the supply of the former especially was scarce and poor.

The contractors, James Stewart & Co., Inc., of New York, immediately summoned to Camp Pike their experts from that city, from St. Louis, Salt Lake City, Chicago and Toronto, and within a week had a highly organized staff of specialists in every branch of the work on the reservation.

Wells were driven, and a water supply was established that was entirely adequate for the needs of the camp; a temporary electric light and power system was installed at once. The lumbermen of Little Rock and Arkansas rallied loyally to the support of the contractors, and within a short time lumber was flowing in at the rate of a million feet a day, later at the rate of a million and a half feet daily. The country was combed for labor until the force of workmen approached 10,000 men and the payroll \$375,000 weekly.

Nothing was overlooked that would save or gain time. The work of unloading the nearly one hundred cars that soon were arriving daily went on without intermission; night shifts worked under powerful search lights. Whenever possible, machinery or fittings needed at once, sometimes weighing several thousand pounds, were shipped by express, and passenger trains were held that quick connections might be made. From the very start, work that could be done after dark was taken

up by night shifts when the day gangs quit. Trench digging, drilling and lasting went on under search lights, and pipe laying was done under traveling lines of incandescents which were moved ahead as the work progressed. Night was found to be an especially favorable time for the operations of the powder men, as they did not then interfere with the work of others, and as the depth of the cuts practically reduced much of the tunneling to mining operations, this could be done at night as effectively as in the daytime. The air compressors and the sewer digging machines worked twenty-four hours a day. Work on the concrete septic tank went on night and day, and pouring of concrete never stopped after it once began.

No saving of time was too small to be looked after. Delivery of material and the output of the mills were closely watched all the time, and at the least sign of delay, or scarcity in the special kind of lumber needed for a particular building or unit, this material was expedited. Buildings were roofed out of the usual order of construction, that the men might continue work on the interior and under shelter if rain came up. By laying the joist, putting on the floors, then laying down the studding, covering these with the outside sheathing and shiplap, and then raising and fastening the sides in place, speed was made. Some idea of what this meant in quick construction may be gained from the fact that on August 16th a 43x140-foot two-story barracks was erected, sheathed, roofed, floors laid, doors hung, stairs up, windows in and even screened, and scaffolding removed, in two hours and 55 minutes.

Water is supplied from the water works at Little Rock through a 16-inch main, 8 miles in length, at which point there is a booster station, consisting of three 3-stage centrifugal pumps operated by 100-H. P. motors. These pump the water, to the elevation of the cantonment site, a total lift of 400 feet, into five storage tanks having a total capacity of one million gallons. From this point the water is distributed by four motor-driven pumps throughout the reservation, in 30 miles of redwood and cast iron mains.

The sewer system consists of a septic tank, three main trunks, with a length of about six miles, and about twenty-one miles of laterals. The septic tank is of concrete 50 by 100 feet in size and ten feet deep, and divided into eight compartments having a capacity of 350,000 gallons.

Plumbing is provided in almost 50% of the 1,663 buildings comprising this cantonment, the installation of which required the employment of from 300 to 400 plumbers for weeks. The electric energy for the permanent electric light and power system of 3 phase at 13,200 volts is furnished from Little Rock through a seven-mile transmission line to the cantonment transformer station. The installation for the outside wiring required 1,150 poles, 103 transformers and 30 miles of main line, with

170 miles of primary and secondary lines to provide electric current for 278 street lighting fixtures. The inside wiring required the installation of 200 miles of wire for 30,000 outlets.

Transporting to and from work, and feeding and caring for the big army of workmen employed at Camp Pike was one of the incidental but very important problems the contractors had to solve along with their actual construction. Every morning half a dozen trains, in addition to other conveyances, brought thousands of men to the cantonment from Little Rock, and carried them back at night. Other thousands never leave the reservation. Meals were provided for all and sleeping quarters for at least half of the laborers. To do this, the barracks, to be occupied later by the soldiers, were fitted by the Company as mess houses, and in these the employees were fed and housed. Twenty of these great dining halls, each feeding from 200 to 300 men at a meal, have been opened. This required the serving of an average of 15,000 meals per day, requiring the following supplies: Beef, 3,500 pounds; butter, 500 pounds; ham, 600 pounds; bacon, 700 pounds; potatoes, 2,250 pounds; onions, 225 pounds; beans, 300 pounds; cabbage, 750 pounds; cheese, 125 pounds; sugar, 1,500 pounds; eggs, 300 dozen; bread, 4,500 loaves; coffee, 600 gallons.

The original cantonment provided for 667 buildings, to which additions have been made from time to time until it now comprises 1,663 buildings, of which 337 are barracks, most of them two stories in height, 103 officers' quarters and 75 base hospital buildings, giving a capacity of 1,000 beds.

The total number of cars of material of all sorts unloaded up to October 21st was 4,331, and among the main items of materials required in the construction were the following:

- 48,000,000 feet of lumber
- 4,400,000 square feet of roofing
- 4,600,000 square feet of floors
- 500,000 square feet of wall board
- 82,000 door and window openings
- 12,000 kegs of nails
- 10,450 plumbing fixtures

The base hospital, regimental medical buildings and officers' quarters were heated by steam, an innovation in cantonment building in the southeast, which required oilers having a capacity of 8,200 horse power, providing steam distributed through 25 miles of steam pipes into 3,890 radiators, having a total capacity of 124,000 square feet of radiation.

Camp Funston.

The George A. Fuller Construction Company, of Missouri, a subsidiary of the George A. Fuller Company of New York, was selected for the work of building the regular army structures, numbering 371 buildings, at Fort Riley, Kansas, with the understanding that the cantonment order for Camp Funston was to follow. Their force landed at Fort Riley on May 17, 1917, with instruction to build these

371 buildings as early as possible. 6,011 men and 5,768 animals were to be accommodated here. In forty-two days elapsed time every one of these substantial frame buildings was turned over completed to the Government and the troops moved in. And completion meant everything—barracks, mess buildings, lavatories, post exchanges, blacksmith shops, 22,000 lineal feet of water supply line, ranging from 12 inches to 4 inches in diameter, and a sewerage system composed of 34,261 lineal feet of vitrified pipe ranging from 24 inches down to 4 inches in diameter.

They were formally notified on June 20th that the contract for the building of Camp Funston was their. They were not allowed to proceed, however, as the actual site had not yet been selected. The Government owned some 36 square miles of land surrounding Fort Riley and the board of experts appointed to mark out the actual site did not reach a conclusion until July 5th. They then announced their selection, an irregular piece of ground on Ogden Flats, between the Kansas River and the foothills, about a mile wide and two miles long. This site is on the main line of the Union Pacific Railroad, about 4 miles northeast of Fort Riley proper and 7 miles from Junction City.

On July 5th, then, the contractor got down to work. He found the site was a huge hay field from which the Government had been feeding part of its stock for years, very nearly level in topography and comparatively easy to dig. The immediate problem to be solved was that of securing necessary labor. The only towns nearby, Junction City and Manhattan, had less than 5,000 population apiece. Hurry calls for all kinds of labor were sent throughout the Middle West and a squad of some sixty automobiles was organized to scour the surrounding country and bring men into the camp. Regular barracks, designed for the use of soldiers later, were constructed for the temporary use of the workmen. As these barracks were completed the force of men was correspondingly increased.

It was a big order to fill. 1,598 buildings and structures with a floor area of about 130 acres. If they were placed end to end they would extend 25 miles. With a few exceptions they are of frame construction, the outside walls and ceilings being lined with paper and wainscoted and lined inside with wall board. They are all built on concrete posts except the lavatory buildings, which have concrete foundations and concrete floors.

The Government schedule called for the completion and delivery on September 18th of 900 of these buildings. And on that day, 75 elapsed days from the time they started to work, the George A. Fuller Construction Company turned over 900 completed buildings. It had taken them 2½ months to turn a hay field into a city with structures to house 40,000 men. The buildings completed subsequently,

comprise stables, wagon sheds and buildings for the remount station.

Here are some of the things they had done in those 75 days:

They had completed buildings at the rate of 12 a day.

They had built six wells, each 36 inches in diameter by 50 feet deep, equipped with pumping machinery and filtration plants.

They had distributed this water throughout the camp through 84,000 lineal feet of pipe, and had arranged to carry away the sewerage through 133,000 lineal feet of vitrified sewer pipe.

The Union Pacific Railroad had laid 67,000 feet of single track sidings within the camp. 3,965 cars of all kinds of material, or an average of 53 cars per day, had been received by the contractors.

They had employed, housed, and fed at 30 cents per meal as many as 9,377 men in a single week without one fatal accident.

They had paid as much as \$346,000 for labor, in a week.

They had no strikes, lockouts or other forms of labor difficulties.

And above everything they showed what an American industrial organization, backed by patriotic American labor and all under the supervision of the democratic American Government, can do to help win the world war.

Camp Devens.

At Camp Devens, Ayer, Mass., 746 buildings were completed by September 1st, 124 more than required by schedule. The total number of buildings erected at Ayer is 1,242, and to finish these on time the contractors, Fred T. Ley & Co., Inc., employed a force of 9,000 men. There were twenty miles of pipe in the water supply system and a like amount for sewerage disposal. To vary the story of construction something of the work involved in this installation done by the W. G. Cornell Company is interesting.

Previous to the starting of work by these contractors the Government had ordered materials supposedly sufficient in quantity to supply the needs of the entire cantonment. The first move was to schedule the material on order so as to assure a sufficient and continuous supply for the work and keep the force of plumbers, 500 in number, engaged. This scheduling of material required the services of 10 experienced plumbing installation engineers. The second step was to make working lay-outs of the plumbing installation based on the building plans. Individual drawings were made for each type of building, thus subdividing the work into groups, and there were sketches giving the measurements for every bit of the work.

A workshop was built at the railroad siding where raw materials were delivered. It was the duty of the purchasing organization to maintain the supply and to follow up material

in transit. For delivery of material about the cantonment site from the railroad 8 automobile trucks were employed.

Working from the drawings, a shop crew of 150 men caulked together all small sections of soil pipe in accordance with the sketches and cut it in proper lengths for setting up. In an erection shop provided with power-driven pipe-cutters and threading machines, all the supply pipe was similarly handled. An installation crew of 50 men was used for installing soil pipe and a like number for installing supply pipe, after it had been all fitted and set up in the shop in accordance with the measured drawings. This system made it possible to keep the installation going at all times and frequently the rough plumbing was installed before the concreting in the lavatory buildings. Further, the organization was flexible, as the force could be doubled up in the pipe shop on the fitting work when work for the outside crew was slack.

The work involved the setting up of electrically-driven pumps at the supply well which pumped water eight miles to four 50,000-gallon receiving tanks. 48,000 feet of 12, 10 and 8-inch water pipe were laid from the pumps to the tanks. For service lines there were 28,000 feet of 2-inch pipe, 30,000 feet of 1½-inch pipe, 138,000 feet of 1-inch pipe and 110,000 feet of ¾-inch pipe with the necessary corporation cocks, service boxes and valves. There were installed 2,650 water closets, 5,800 showers, 750 ten-foot metal basin troughs, 738 six-foot urinal troughs, and within buildings, 32,000 feet of 4-inch cast iron soil pipe, 28,000 feet 2-inch cast iron soil pipe, 228,000 feet 1½-inch, 150,000 feet 1-inch, 72,000 feet ¾-inch and 9,000 feet ½-inch galvanized iron pipe.—"Architect and Building."

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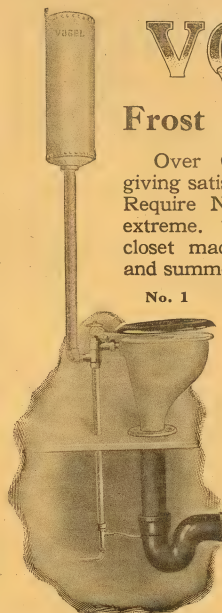
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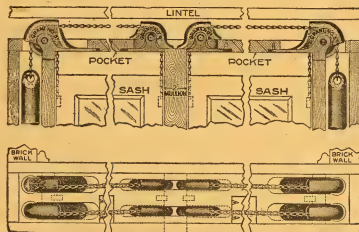
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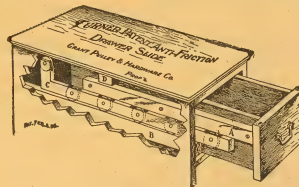
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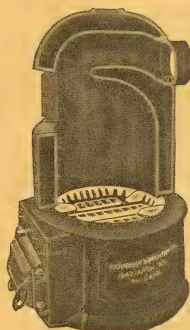
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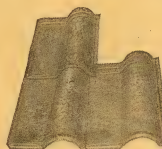
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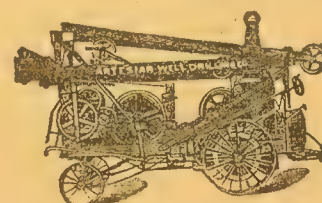
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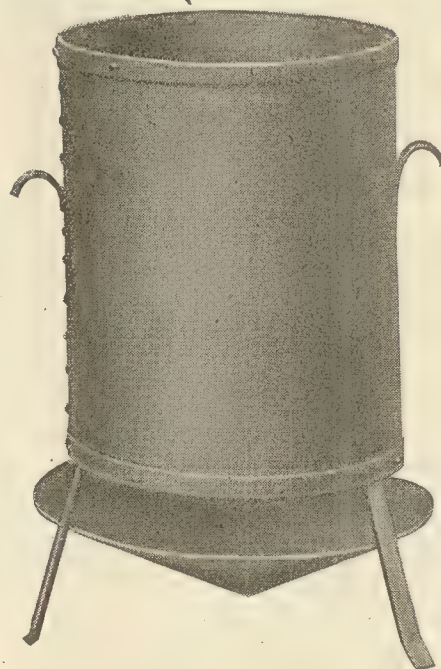
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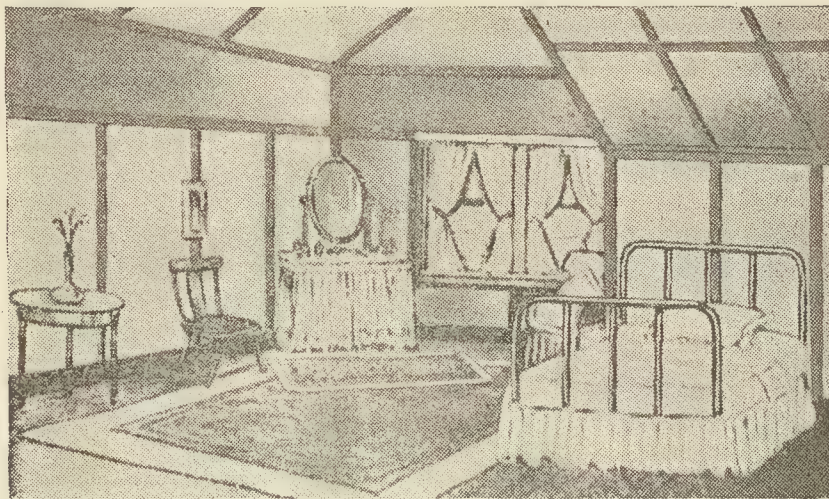
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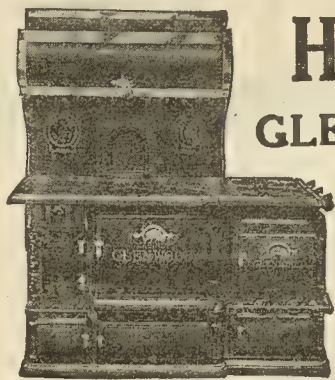
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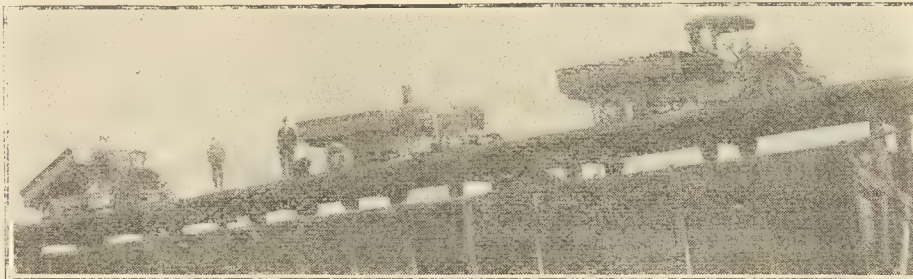
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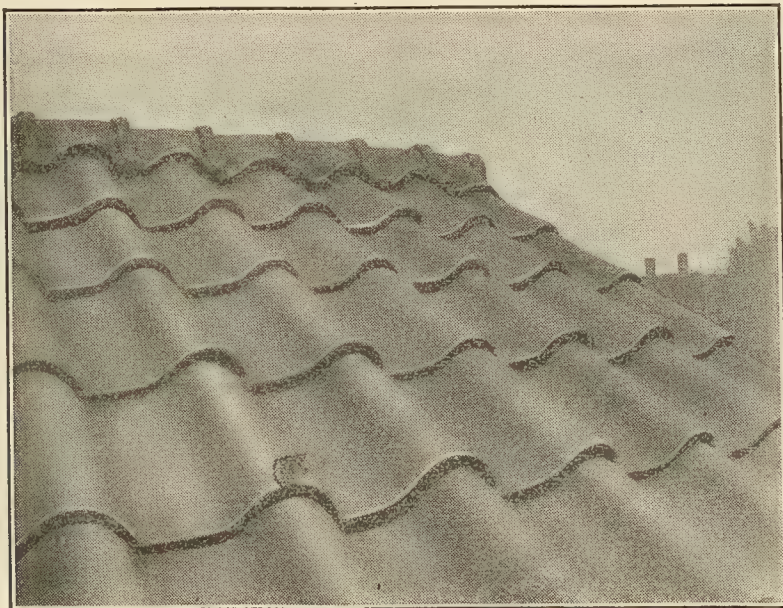
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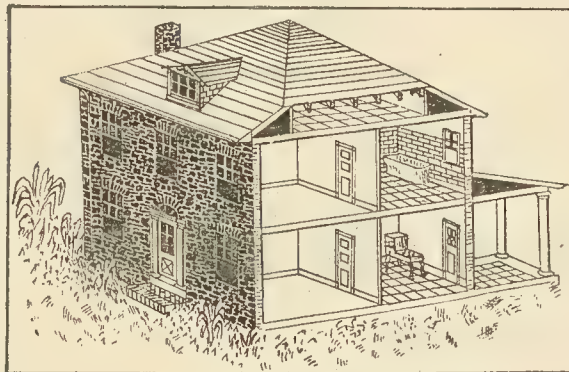


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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As The Editor Sees It



CORROBORATIVE testimony in support of the view taken by THE GUIDE to the effect that a not inconsiderable proportion of the existing stagnation in the building trades is fairly chargeable to a lack of confidence rather than to any real difficulty presented by the situation, reaches us from Washington, D. C. Writing to the *American Contractor* from the capitol city, Mr. Frank P. Milburn, of Milburn, Heisler & Co., architects, observes:

"The investing public, in a measure, has been misled, or is under the impression that it is impossible to get building materials such as steel, lumber, etc., at reasonable prices. This conclusion, no doubt, has been formed from the published statements that the Government was taking over all classes of building material and that private owners would have to pay considerably more for any material that they contemplated using.

"We have recently let the contract for the District National Bank building and the office building for the Potomac Electric Power Company, and we found that the figures from the general contractors are little higher than they were last year. We do not believe that prices will ever be as low as they were from 1911 to 1913, and there is nothing to be gained by delay in construction of buildings. The building business for the year 1917 has fallen off about 75 per cent., due largely to the false impression of the high cost materials and labor.

WE have reliable information on the steel situation as follows:

Some of the largest mills are to-day accepting orders for steel from two to four months delivery at the Government price, which is \$60 a ton Pittsburgh on structural steel and \$65 a ton on plates.

"Class A is used for only shipbuilding and Government needs.

"Class B is material for the Government, such as buildings built by private concerns for the making of ammunition and other Government needs.

"Class C covers all material not included in the other two classes for general building in open market.

"The Government need for shipbuilding, etc., will not exceed 40 per cent. of the output of the larger mills. Some of the larger mills are rolling heavier building sections, such as beams and columns that are not suitable for the Government and are used outside by private owners. There is no demand for this class of material by the Government.

"There has been a scarcity of skilled and common labor, but with the finishing up of the cantonments there will be ample labor to take care of the building situation. It is the duty of every business man to encourage business in every line, so as to maintain normal conditions. If we fail to do this, from what source will the Government receive its taxes?"

AN interesting survey of the building situation appeared in a recent number of the *New York Real Estate Record*.

"The optimistic feature of the building outlook is the growing realization that many forms of building and construction work are and must be recognized as absolutely essential to the industrial efficiency of the nation," says the survey in question. "The leaders of the country state in straightforward terms that upon the production of American industry depends the ultimate success of our country in the war. Everywhere the word is being passed to 'speed up necessary production'.

"Naturally the possibilities of increased production are limited by the available 'plant.' Construction of the tools of industry must continue if the output of industry is to be increased. Gradually the country is awakening to the vital fact that without construction production cannot be 'speeded up' to its fullest capacity; nor can this increased production be maintained after the war unless adequate construction takes place in the meantime.

"The movement, which is gaining headway for the temporary mobilization of construction interests, has the same objects in view that are common to other war-time measures for the "pooling of resources," such as have been accomplished by the copper, steel, coal, lumber, and other vital war-time industries. American business to-day is directed

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toward one single aim, namely, to win the war. This war has taught business the world over that without organization and co-operation nothing can be accomplished.

"It is therefore highly desirable that the building and construction interests should mobilize their forces, and through an organized identity in Washington, consisting of a small national advisory board, to suggest, advise and direct these forces along the lines that will help most in the war, and prepare best for the restoration subsequent to the war."

* * *

THE building business, if temporarily organized, can do a great service to this country in preventing the conduction which befell England and which now threatens this country. Having allowed her building industry to become disorganized during the war, England is at last obliged to attempt to provide, through governmental action, proper housing accommodations for about two millions of her population. Her housing shortage is impairing England's industrial efficiency at a time when in all her history she can least afford to have it impaired. Had England not made the mistake of regarding the whole building industry as non-essential she would have saved millions of dollars and a great amount of industrial discontent. Had England mobilized her reconstruction interests as she did her other industries at the beginning of the war attention would long ago have been drawn to the need or increased housing and factory construction, and effective steps long since taken to meet the situation.

"A recent survey made showed that from nearly every important center comes a demand for more factories, warehouses, workmen's homes and apartment houses. The shortage of workmen's homes is too well known to be stated again. And yet because of apparent high costs, uncertainty, timidity, and sometimes a mistaken idea that building is unnecessary to the conduct of the war, private enterprise, unco-ordinated as it is, is unable or unwilling to perform the full measure of construction which conditions demand."

* * *

FACTORY building has been fairly well maintained, to be sure; but still the supply is far below the need in most manufacturing centers. But factories employ workmen, and workmen must live in houses. Since employees flock into the industrial centers to work in the new factories there must also be dwelling houses where they can live decently. With this thought in mind the following figures on the types of buildings started this year and last become very significant. It will be seen

that the building of factories, mills and plant extensions shows an average increase of 63 per cent. over last year (for a territory covering the northern, central and eastern section of the country, containing 45 per cent. of the population of the country):

MANUFACTURING BUILDINGS STARTED.

	1916.	1917.	% over 1916.
January—			
February—	\$8,742,000	\$14,535,000	66 inc.
March—	7,340,500	14,305,000	94 inc.
April—	11,650,500	12,050,000	3 inc.
May—	11,234,500	24,336,000	116 inc.
June—	14,681,000	22,864,000	55 inc.
July—	13,763,000	16,826,000	22 inc.
August—	9,341,314	19,593,000	109 inc.
September—	11,398,301	23,295,500	104 inc.
October—	10,846,474	10,623,000	2 dec.
November—	18,046,000	.....	.....
December—	17,652,000	.....	.....
	14,081,000	.....	.....

* * *

ON the other hand, residential building has shown a steady reduction since our entrance into the war. Since May, 1917, the average monthly reduction as compared with last year is about 28 per cent.:

RESIDENCES ACTUALLY STARTED.

	1916.	1917.	% over 1916.
January—			
February—	\$22,383,044	\$24,983,500	10 inc.
March—	22,783,000	39,674,000	73 inc.
April—	31,286,000	32,413,000	4 inc.
May—	33,140,500	43,505,000	31 inc.
June—	43,122,000	39,029,000	9 dec.
July—	46,119,845	31,933,000	31 dec.
August—	32,843,000	22,828,000	30 dec.
September—	34,003,000	26,658,700	22 dec.
October—	39,087,200	19,558,000	50 dec.
November—	51,043,000	.....	.....
December—	39,656,000	.....	.....
	34,362,000	.....	.....

"While it is conceivable that high-grade residential building might feel some hesitation in these times, there is no excuse for a complete unsettling of the necessary balance between industrial and residential work of all types. If the building interests fail to provide dwellings for the employees in these tremendously expanded factories, then all the evils of overcrowding will occur in this country that have occurred abroad, with the same or even greater impairment to our industrial efficiency.

"Concentration and centralization of the building interests of the country to gather data and study the national building problems would tend to act as a balance wheel to the industry, and intelligently direct its efforts so as best to serve the nation in the present crisis."

* * *

THE Board of Examiners and Registration of Architects of New York State has filed its second annual report, which is as follows:

The act of creating this Board became a law on April 28, 1915, and was re-enacted May 4, 1917, with amendments affecting the name of the Board and term of office of the members, extending the time for registration without examination, and making certain minor changes. The Board was appointed by the Regents, and held its first meeting on May 22, 1915.

The Board held thirty-one meetings during its first year, and twenty-five meetings during the second year to and including September 13, 1917. Ten of the twenty-five meetings occurring during the second year were held in Albany, fourteen in New York and one in Buffalo.

Total applications received during the first two years, since the law went into effect, number 1,991. Of those 175 were withdrawn, 1,367 have been approved, 358 have been disapproved, with the recommendation that they be not given certificates without examination, and 89 remain to be given final consideration.

No examinations have been held for the admittance of new practitioners. Only two applications as yet have been received for registration upon examination.

During the year the Board has approved 350 applications for registration, making the total registration, on September 13, 1917, 1,367. One hundred and eight applicants appeared before the Board during the past year for personal hearings, most of them in appeal from previous disapproval of their applications and some upon request of the Board to present proofs of qualifications. Eighteen appeals were granted, leaving the net total disapprovals for two years 358, as stated.

THE rules for the conduct of the Board, which, including a syllabus of examinations submitted last year, were given further careful consideration by Chancellor Sexton and Dr. Downing, and finally adopted by the Regents May 31, 1917, will be printed shortly in booklet form.

The members of the Board being engaged in private practice and necessarily giving only a portion of their time to the work of the Board appreciate the privilege of co-operating with a department of the State University, which is charged with the duty of administering the Registration Law. The Board is under obligation to Dr. Downing and to other officials for wise counsel and to those in charge of records for efficient assistance rendered.

The Board of Examiners, after two years' experience with the operation of the Registration Law, and after examining the work of scores and hundreds of architects who are not a credit to their profession, is confirmed in its belief that the most important function of the Registration Law is its tendency to raise the standard of education and technical qualifications. The Registration Law does not prevent engineers and others doing building work, but it does forbid any new practitioner assuming the title of "architect" until permission is granted for reasons which in effect make "architect" a degree and the certificate a diploma of achievement. The law does not in any way compel the public to patronize architects, except as it may command respect by fixing high standards of ability and qualifications for those permitted to use the title. Your Board believes that it has evidence of a strong impulse toward higher education on the part of young men ambitious to practice, and, with the assistance of architectural schools willing to co-operate with the Board, has confidence that the law will justify its beneficent purpose.

* * *

THE consensus of opinion seems to be that registration is commendable and necessary. It is to be regretted in the circumstances, that the bill introduced at the last session of the Pennsylvania Legislature by Senator Vare, failed to pass. The drift of opinion favors the view that the bill was a trifle over-drastring in certain of its provisions. It should be kept steadily before those to whom is committed the task of preparing the next bill of the kind that the chief end to be attained is to prevent the promiscuous use of the term "architect" at the hands of men whose lack of skill is calculated to lower professional standards. With this end attained such other restrictions as may prove to be necessary will come in due

course. The main thing is, as stated by the New York Board, to raise the standard of educational and technical qualifications. The Philadelphia Master Builders' Exchange, which opposed the Vare measure, was not antagonistic, as we understood its position, to the principle of licensing and registration. Its opposition was to certain unwise stipulations inserted in the bill which were without bearing upon registration and were designed presumably to restrict unnecessarily the admission of new men to practice. With these severe provisions omitted the bill could have been passed at the last session. A reasonable bill along the lines indicated should experience little opposition in the next session.

* * *

UNDER the caption, "An Improved Building Outlook," a New York exchange remarks:

"Although the exact reason for the condition is somewhat difficult to analyze, the fact still remains that the local building situation is evidencing signs of undergoing a decided improvement. Through a long period of dullness the structural interests have looked forward to the time when the adverse building conditions would be dissipated and the general outlook improve to an extent that would permit of a renewal of activities. Each time there seemed to be an actual possibility of making a definite start some entirely new condition would arise to prevent or hinder a resumption of work on a scale important enough to encourage the industry.

According to the signs of the past week, however, it seems as though the long anticipated and hoped for building movement were more imminent than it has been for many months. Now is the time for the building interests to co-operate in an effort to fan this latent spark into a flame of burning activity.

"Unquestionably the recent actions of the Federal authorities in regard to the regulation of price and control of output of certain commodities essential to the building trades has exerted a most beneficent effect upon the industry. Furthermore, there are promises of additional regulation from the same source, soon to be announced, that will surely increase the optimism of the building trades and assist in creating a still better condition.

* * *

AT the present time the building material markets, which were lately in a chaotic state, have with few exceptions been stabilized. By virtue of this condition, architects, builders and owners are in a position to estimate with a certainty that was almost impossible but a few months ago. As a natural result there has followed a revival of in-

terest in building, with a greatly increased number of private operations out for estimates, and, during the past week a further evidence of better times in the volume of important work actually placed under contract.

Considered as a unit the building industry has not yet come to a realization of the fact that to day the building situation is far better than it has been for a long time. Individuals, however, who have closely watched the situation during the long and tedious period of inactivity and stress acknowledge that the outlook is improved and that from this time forth there is every reason to expect a steady flow of activity of a character that will have a tendency to hearten the allied building interests.

BUILDING SUPERINTENDENTS ORGANIZE.

New York Building Superintendents' Association Organized with Novel Features.

The purpose of the association is to create better superintendents, which will have a two-fold effect—first, to make a better class of superintendents for large buildings, and, second, to improve the operation and maintenance of those buildings. This will have the effect of making the men more valuable to the owner, thereby increasing their salary, and, on the other hand, through saving and diligence, reduce the cost of operation.

It is the earnest desire of the members of the association to co-operate with the building managers, and to this end representatives will attend the next monthly meeting of the New York Building Managers' Association. At that time President F. W. Douglas will present the purposes of organization and show how the association can be of benefit not only to building managers, but also to the owners of property.

The association meets every Tuesday evening at 4 West Thirty-seventh street, New York City, at which time informal discussions are had on subjects of current issues. It was proposed to have a series of lectures given by specialists on all of the major subjects applying to modern buildings, but for the moment this program has been abandoned because the Board of Education has stated its desire to run a series of lectures at the Vocational School in East Thirty-seventh street. These lectures would cover the subjects under consideration. The only thing that is holding the matter up is the obtaining of lecturers, but it is understood that this detail will soon be overcome.

One of the features of the association is the Labor Bureau, which is of benefit not only to the superintendent, but also to the owner, manager and employee. The way the system works out is this:

The superintendent of the building desires additional help. An advertisement is inserted and the address of the Bureau is given. The

man applies for a position and is examined after a fee of one dollar has been paid by him. This nominal amount goes to help support the Bureau. It is frequently found that the applicant is unsuitable for the position in question, but may be placed in another capacity where he is better fitted. The applicant saves money, because the usual fee charged by employment bureaus is 10 per cent. of the first month's wages.

An important feature of this system is the prevention of raiding by one superintendent

on another. It has the effect of stabilizing the operation of the building.

The operation of a modern office building or apartment house is intricate, and a good superintendent can do much toward the successful running of the structure and at the same time be of material assistance to the building manager. "Co-operation" is the slogan, but in no sense can the association be looked upon or considered as a union. This has been strenuously avoided in every move which has been made by the members.

est in furnace heating. At the last meeting the committee reported that already \$800 had been pledged for the 1918 advertising campaign. To carry out the advertising program as outlined will require \$2,000 and the committee has good hopes of raising this amount.

* * *

William Cramp & Sons, of Philadelphia, Pa., shipbuilders, purchased the property of the De La Bergne Machine Company, New York. The deal involved about \$1,500,000. The property includes three city blocks at 137th and 138th streets, and the East River, running west to the New York, New Haven & Hartford Railroad station, aggregating about five and one-half acres. While the shipbuilding concern has maintained an office at 100 Broadway, nevertheless, this purchase is its first actual invasion of New York as constructors. The company will use the property for the construction of marine engines, Diesel engines and refrigerating machinery.

* * *

The markets for building materials and supplies have felt the effect of the new contracts awarded by a strengthening all along the line, and there are numerous inquiries emanating from those structures that are out for estimates. The prices are steady, and in particular instances are indicating a tendency toward further advances. One of the most disturbing features of the present situation is the condition of the labor market. This is far from satisfactory, not only on account of the scarcity of available supply, but also from the fact that recently there have been labor disturbances that have greatly affected the general situation. While the building trades have not experienced these disturbances to an alarming extent, the condition exerts a marked influence upon all labor bodies.

* * *

R. S. Lindstrom, a Chicago architect, recently joined the staff of the Portland Cement Association and is attached to the Structural Bureau.

* * *

Kelley Island Lime and Transport Company, Cleveland, has taken over the plant of the Dutchess Lime Co., Dover Plains, N. Y. E. T. Belden, formerly Eastern representative for the Dutchess Lime Company, is in charge of the New York office.

* * *

The freight transportation situation is also one of the factors that are effective in holding the building field from its maximum effort. The exercise of priority rights by the Government is being experienced in almost every line of industry, and as a consequence deliveries on private contracts are more uncertain than they recently were. In addition to this, the transportation facilities of this country are rapidly becoming taxed to a point where congestion again prevails upon shipments in certain directions.

* * *

Clarence M. Woolley, for many years president of the American Radiator Company, has been appointed member of the War Trades Board by President Wilson at the request of

EDITORIAL NOTES

Durham Brothers, architects, announce the removal of their offices from the Heed Building to 26 South Fifteenth street, Suite 53.

* * *

Announcement is made that the electrical men of Philadelphia have formed an organization to be known as the "Electric Club of Philadelphia." A charter will be applied for during the coming week. It will be signed by twenty of the leading electrical men of the city. Officers have been elected as follows: President, Washington Devereaux, chief of the Electric Department of the Philadelphia Fire Underwriters' Association; vice-president, Frank H. Stewart, of the Frank H. Stewart Electric Company; secretary, R. C. Williams, Jr., of J. F. Buchanan & Co., and M. Edwin Arnold, of M. E. Arnold & Co., treasurer.

The membership has been limited to fifty for the first six months, after which new members may be taken in at a rate not to exceed five per month, until the limit of 100 has been reached. Not more than three representatives of any one firm may become members except in the case of public utility companies, where the limit of six will obtain.

The object of this club will be the advancement of the social, professional and commercial interests of its members; the elevation of the standard of electrical work; the furtherance of the use of electricity, and the general development of the electrical industry. Noonday luncheon meetings will be held twice a month, and there will be about four evening meetings per year.

* * *

An analysis of the production costs of stoves and furnaces in some one hundred odd plants as conducted by F. J. Stephenson, secretary of the National Association of Stove Manufacturers shows that the average cast iron stove should sell 68 per cent. and furnace 78 per cent. higher than in 1915. The report points out that there is a variation in figures in different localities. It is also stated that these figures could be reduced 15 per cent. if manufacturers are able to purchase iron and other materials at the prices fixed by the Government, but so far this has been an impossibility. On the other hand, the report shows

that the price of stoves and ranges have advanced only about 50 per cent. in the same period.

* * *

Projects figuring and contracts awarded indicate an improved building situation, says a New York report. The number of operations out for estimates and the volume of work actually placed under contract during the past week should be a very hopeful sign to the builders and their allied interests. Not only within the bounds of Greater New York has the situation improved, but reports from the suburban sections and from some of the larger cities in the East and Middle West bear out the feeling that the worst of the storm has been successfully weathered, and from this time forth a steady improvement in structural activity will be noticeable.

* * *

Among manhattan contracts that were placed during the week was that obtained by John H. Deeves & Brother for the reconstruction of the Washburne Wire Company plant at 118th street and the Harlem River, recently destroyed by fire. The E. E. Paul Company received a contract for the construction of a handsome private residence at 14 East 78th street for Andrew J. Miller, to cost more than \$50,000; the William L. Crow Construction Company obtained the contract for the erection of a \$250,000 office building down town for the New Jersey Zinc Company, and John Auer & Sons received a general contract to build the new \$100,000 bank structure in Brooklyn for the People's National Bank. Other contracts, but of lesser importance, brought the total volume of new business registered in that city up to a substantial figure.

* * *

The Master Tin and Sheet Metal Workers' Association of Philadelphia, Pa., has decided to continue its advertising and publicity campaign which it commenced earlier in the year. The results have been so gratifying that there is a movement on foot to enlarge the fund and increase the number of cards carried in the street cars. These cards have, it is said, brought to headquarters a great many inquiries and have stimulated the public inter-

Secretary Redfield. He is to administer supervision over imports.

* * *

"Building in Brooklyn Collapses and Several People Are Killed"—headline. All interested are paying the game of "passing the buck." Up to the present time no bureau has been found which should see that owners comply with the laws regarding overloading floors. P. J. Carlin, the Building Superintendent in Brooklyn, is quoted as saying that his decreased staff makes such a checking up impossible. It would be well to fix the responsibility, if for no other reason than to prevent a recurrence of such an accident.

* * *

Hydrated Lime Bureau, Pittsburgh, Pa., announces the appointment of Tyrrell B. Shortzer, formerly City Manager of Portsmouth, Va., to the newly created position of Eastern District Engineer, with headquarters in New York City. Also, C. W. Freitag, formerly construction superintendent for S. R. Smythe Co., construction engineers, Pittsburgh, has been appointed Western District Engineer, with headquarters at the home office of the Bureau in Pittsburgh. Appointments were effective October 1.

* * *

American Hardware Manufacturers' Association, with headquarters in the Woolworth Building, New York City, is now affiliated as a member of the National Industrial Conference Board.

* * *

Cornell Society of Civil Engineers of the City of New York elected the following officers at its recent annual meeting: Joseph C. Hilton, of Mason, Hilton & Co., contractors, president; J. H. Dickinson, manager Lidgerwood Manufacturing Co., vice-president; Ira W. McConnell, assistant chief engineer, Stone & Webster, second vice-president; C. R. Harding, assistant consulting engineer for Southern Pacific Co., recording secretary; Ernest A. Truran, assistant engineer with New York Central Railroad, corresponding secretary and treasurer.

* * *

Chicago Cement Machinery and Building Material Show will be held in the Coliseum, Chicago, February 6-13. The show will be held under the auspices of the National Exhibition Company, 123 Madison street, Chicago.

* * *

Pennsylvania and Atlantic Seaboard Hardware Association and the New York State Retail Hardware Association will hold a joint annual convention and exhibition in New York City, February 12, 13, 14, 15, 1918. Headquarters at the Hotel Astor.

* * *

Mr. J. W. Lucas, president John Lucas & Co., Inc., and Mr. C. N. Lauer, of Day & Zimmerman, are chairman and vice-chairman, respectively, of Group 9 of the Industrial and Commercial Section of the Liberty Loan Committee. Their splendid work resulted in \$3,687,550 for the Liberty Loan, placing the group third in a section of twenty-one groups.

Colonel Mark Brooke, United States Engineers, Wilmington, Del., engaged on fortification work, wants two building superintendents immediately, and would like to have names of several more to call upon later.

It isn't enough to just advertise. There is competition these days in advertising, as in other things. You must make your advertising attractive. You must make it say something,—something definite, original and convincing. If you lack faith in your own ability to do this, let us do it for you. Give us the facts. Talk to us just as you would to a prospective buyer. That is the kind of talk that makes profitable advertising. We'll look after the verbal frills. That's our business.

Advertise! The minute you stop advertising you lose ground. You may not feel this loss right away. But you must feel it in the end. Advertising is the dynamo of modern business.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Dwellings (26), corner Hutchinson and Courtland streets, Philadelphia, \$97,500. Architect, private plans. Owner, Daniel Crawford, Jr., 701 North Sixth-third street, Philadelphia. Brick and stone, 2 stories, 20x34 feet, slag roof, hardwood floors, hot water heating, combination lighting. Owner about to start work.

Dwellings (12), Sixty-fourth and Jefferson streets, Philadelphia, \$84,000. Architect, private plans. Owners, Moss & Taylor, Fifty-eighth and Girard avenue, Philadelphia. Stone and brick, 3 stories, 24x36 feet, slate roofs, hardwood floors, steam heating, combination lighting. Owners about to start work.

Officers' Quarters and Fuse Shop, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Col. Geo. Montgomery, Frankford Arsenal. Reinforced concrete, brick and stone, 3 stories, 59x19 feet and three stories, 61x22 feet, slate roof, vacuum heating, electric lighting, tile work, rolled steel sash, hollow metal skylights, fire and kalamen doors, cement, oak and maple floors, metal lath, roof ventilators, stone foundation, waterproofing. Low bidders: Wm. Steel & Sons Co., 30 South Fifteenth street, Philadelphia, Officers' Quarters, \$67,284; fuse shop, \$29,431; green house, \$3,200. Wm. R. Dougherty, 1610 Sanson street, Philadelphia, Officers' Quarters, \$74,900; fuse shop, \$23,316; green house, \$3,676.

Temporary Storage Building, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Government, Department of Public Works, Officers De Wit & Webb, Navy Yard, League Island, Philadelphia. Frame, 1 story, 120x260 feet, Ready roofing, pine and cement floors, roof ventilators (lighting reserved). Lowest bidders: McCloskey & Bahls, 1620 Thompson street, Philadelphia, Item No. 1, \$23,292, 120 feet; No. 2, \$26,337, 140 feet; No. 3, \$29,476, 160 feet. Wark-Yardley Co., 1737 Filbert street, Philadelphia, Item No. 1, \$26,900, 120 feet; No. 2, \$30,350, 140 feet; No. 3, \$33,600, 160 feet. Lam Building Co., 1001 Wood street, Philadelphia, Item No. 1, \$26,900, 120 feet, No. 2, \$31,100, 140 feet; No. 3, \$35,300, 160 feet.

Residence (alt. and add.), 1728 South Broad street, Philadelphia, \$7,500. Architects, Milligan & Pierson, 520 Walnut street, Philadelphia. Owners, Augustine Social and Beneficial Society, care of architects. Brick, rear addition, 2 stories, 20x21 feet, side addition, 2 stories, 32x8 feet, slag roof, electric lighting, hardwood floors, slate work, dumb waiters, hollow metal skylights (plumbing and hot water heating reserved). Revised plans in progress.

Apartments (alts.), Thirty-sixth and Powelton avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick and stucco, 3 stories, addition 13x15 feet, slag roof, hot water heating, combination lighting, tile and marble work, parquet floors, stone founda-

tions, porches, iron stairs. Architect has received bids.

Garages (4), Thirty-sixth and Pearl streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick (slow burning), 1 story, 50x20 feet, slag roof, cement floors. Architect has received bids.

Sewage Disposal Plant, Southwestern Philadelphia. Engineers, Bureau of Surveys, City of Philadelphia, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Geo. E. Datesman, Director, City Hall, Philadelphia. Preliminary sketches completed. Plans will be started in the near future.

Garage (alts.), Twenty-second and Pine sts., Philadelphia. Architects, The Hoffman Co., Finance Building, Philadelphia. Owner's name withheld. Brick, 2 stories, 80x80 feet, slag roof, steam heating, electric lighting, cement and maple floors, elevators, stone foundations, fire doors. Architects taking bids, due as soon as possible. Smith-Hardican Co., 1606 Cherry street, additional bidder.

Residences (9), Sixty-seventh and Elmwood avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Steitz & Maloney, Sixty-seventh and Elmwood avenue. Brick and stucco, 2 stories, 16x33 feet, 3-ply rubberoid roofs, hot air heating, electric lighting. Plans completed. Owners are taking sub-bids on all lines.

Marine Barracks, Navy Yard, League Island, Philadelphia. Architects, Rankin, Kellogg & Crane, 1012 Walnut street, Philadelphia. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete, brick and stone, 3 and 3½ stories, 280x54 feet, 3 wings, 48x39 feet, slate roof, asphalt and composition floors, steam heating, electric lighting, waterproofing, iron stairs, ornamental iron work, fire doors. Lowest bidders: McCloskey & Bahls, 1620 Thompson street, \$213,547, 200 days; Price Const. Co., Baltimore, Md., \$227,000, 325 days; Wm. R. Dougherty, 1610 Sanson street, \$230,000, 270 days.

Mill Building, southeast corner of Second and Westmoreland streets, Philadelphia. Architect not yet selected. Owners, Thomas E. Brown & Sons, Second and Westmoreland sts. Brick, steel and concrete, 6 stories. Work contemplated.

Brass Foundry (add.), Adams and Thompson streets, Philadelphia. Architect, private plans. Owners, Wm. Cramp Ship and Engine Building Co., Richmond and Norris streets. Brick, concrete and steel, 1 story, 145x143 feet. Plans in progress. Too early for details.

Battery and Store Room (add.), 1328 Race street, Philadelphia. Architect, Joseph A. Rottler, City Hall. Owners, City of Philadelphia, Bureau of Fire, 1328 Race street, Philadelphia. Consists of new partitions, plastering, cement floors, roof ventilator. Owners will advertise for new bids.

Garage, Twenty-third and Walnut streets, Philadelphia (Temporary work). Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owner, Automobile Trade Association, care architect. Consists of temporary band-stands, vestibules, frame, and electric wiring. Plan sin progress.

Engine House & Machine Shop, Erie ave. Yard, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading Railway Co., Twelfth & Market streets. Reinforced concrete, steel and brick, 1 story, 16 stalls, 200 feet circumference, machine shop, 1 story, 156 x 216 feet, J-M roof, cement and pine floors, rolled steel sash and skylights, fire doors, iron stairs, ornamental iron work, hollow tile, roof ventilators, waterproofing, stone foundations, waterproofing, wire work (heating and lighting, reserved). Lowest bid submitted by Wm. Steele & Sons Co., 30 South Fifteenth street, Philadelphia. Item No. 1, \$194,441; Item No. 2, 128,776; time, 225 days.

Garage (40), Fifty-second and Arch street. Architect, private plans. Owner, Wm. Hein, Fifty-second street below Arch street. Brick, 1 story, 8x18 feet each, slag roofs, cement floors (heating, lighting and gasoline storage system, reserved). Owner taking bids, due as soon as possible. E. E. Hollenback, Inc., 1804 Brandywine street, is figuring.

Apartment House, Tenth and Clinton streets, Philadelphia. Architect, private plans. Owners, The Clinton, care of Robt. M. Coyle Co. (Mr. Edw. Troxell), 423 Walnut street, Philadelphia. Consists of restoration of building after fire. Robt. M. Coyle Co., 423 Walnut street, is taking bids, due as soon as possible. A. R. Raff Construction Co., 1635 Thompson street, is figuring.

Store and Apartments, 3535 North Seventeenth street, Philadelphia. Architect, Wm. H. Wooters, 816 Allegheny avenue, Philadelphia. Owners, Hendricks Hardware Co., care Architect. Brick, 2 stories, 49x15 feet, stone foundations, slag roof, hardwood floors, electric lighting, stone front, cement basement floor, timber underpinning, hollow metal skylights, flush bulks, copper work, glazing, hot water heating. Architect taking bids, due Nov. 23th. Wm. F. Koelle & Co., Twenty-sixth and Oxford streets, and Harry P. Werner & Co., 3243 Germantown avenue, are figuring in addition to those previously reported.

Residences (36), Parkside, Belmont avenues and Viola street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x43 feet, asbestos shingle roof, steam heating, electric lighting,

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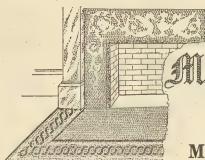
hardwood floors. Architect taking sub-bids.

Store and Dwelling, Southeast Corner Hancock and South streets, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Alexander Leberman, Widener Building, Philadelphia. Stone foundations, 3 stories, 25x74 feet, slag roof, yellow pine and hardwood floors, hot water heating, electric lighting, tile work, marble trimming, flush bulks, metal ceilings, metal lath. Architect taking bids, due as soon as possible.

Fuse Shop, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Geo. Montgomery, Frankford Arsenal. Reinforced concrete, brick and stone, 3 stories, 61x22 feet, slate roof, vacuum heating, electric lighting, tile work, rolled steel sash, hollow metal skylights, fire and kalamein doors, cement, oak and maple floors, metal lath, roof ventilators, stone foundations, waterproofing. Owners taking revised bids, due Nov. 30th. W. W. Anstine & Co., 1218 Filbert street, Ketchan & McQuade, 1029 Brown street, and Wm. R. Dougherty, 1610 Sansom street, Monaghan & Loose, Inc., 3016 Chestnut street, and Wark-Yardley, 1737 Filbert street, are figuring.

Store (alts.) Southeast Corner Ninth and Walnut streets, Philadelphia. Architect, H. E. Hahn, 1112 Chestnut street, Philadelphia. Owner, name withheld. Brick, 1 story, 89x29 feet, hardwood floors, electric lighting, tile and marble work. Architect taking bids, due Nov. 28th. Raith Const. Co., 304 Master street, B. Bornstein, 1519 North Franklin street, Lam Building Co., 1001 Wood street, H. Reusswick, 137 North Tenth street, D. J. McNamee, 1621 North Fifteenth street, John McShain, 1610 North street, and Geo. H. Frank, 1113 herry street, are figuring.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Kiln and Lumber Shed, Venango and Pennsylvania Railroad, Philadelphia. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, A. Schoenhut Co., Adams and Sepviva streets, Philadelphia. Brick, steel and concrete, 1 story, 41x58 feet, shed, 53x112 feet, slag roof, cement floors, rolled steel sash (electric lighting and sprinklers reserved). Contract awarded to P. Haibach Const. Co., Twenty-sixth and Thompson streets.

Machine Shop, Front and Girard avenue. Architect, private plans. Owner, Espen Lucas Machine Co., care Builder. Brick

and steel, 1 story, 44x180 feet, slag roof, cement floors, electric light, rolled steel sash, fire doors. Contract awarded to Austin Co., Bulletin Building, Philadelphia.

Apartment House (alts.), 42 South Nineteenth street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner, Benjamin Alexander, 1326 Chestnut street, Philadelphia. Consists of interior alterations, (5) bathrooms, tile work, steam heating, electric lighting, tile floors. Contract awarded to D. Henwood, 1509 Wood street, Philadelphia.

PENNSYLVANIA

Construction News

Comfort Station, Nay Aug Park, Scranton, Pa., \$8,000. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, City of Scranton, Department of Public Safety, Scranton, Pa. Concrete, 1 story and basement, 70x35 feet, tile roof, tile and cement floors, electric lighting, tile and marble work. Plans in progress. Will advertise for bids in about one month.

Houses (20), Bethlehem, Pa. Architect, Geo. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Dodson Realty Co., Bethlehem, Pa. Hollow tile and stucco, 2 stories, 32x40 feet, slate roof, pine floors, hot air heating, electric lighting. Plans about completed. Owners will sub-let all contracts.

Factory (add.), North Penn avenue, Wilkes-Barre, Pa. Architect, Geo. Welsh, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Press Steel Co., Wilkes-Barre, Pa. Concrete, 1 story, 40x60 feet, composition roof, concrete floors. Plans in progress.

School, Vanley, Pa. Architect, G. W. Osterhout, Connell Building, Scranton, Pa. Owners, School Board of Vanley, Vanley, Pa. Brick, 2 stories, 10 rooms (steam heating, electric lighting and plumbing reserved), pine floors. Lowest bidder, John Nolan, Carbondale, Pa. Silk Mill (alts.), Hawley, Pa. Architect, J. J. Howley, Scranton, Pa. Owners, Wellwood Silk Co., Inc., Hawley, Pa. Brick, general interior alterations, 5 stories, 370x42 feet, slag

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roof, steam heating, electric lighting, fire escapes. Plans completed. Architect ready for bids.

Comfort Station, Providence Square, Scranton, Pa. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, City of Scranton, Department of Public Safety, Scranton, Pa. Brick, 1 story, 70x30 feet, Barrett roof (indirect system of heating, electric lighting and plumbing reserved), tile and marble work, cement floors. Owners will take preliminary bids in a few days.

Bridge, Nelson, Nelson Township, Tioga Co., Pa. Architect, G. A. Flink. Construction engineer, State Capitol, Harrisburg, Pa. Owners, Board of Commissioners of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa. Owners taking bids, due December 11th, at 2 P. M. Plans and specifications may be obtained from Geo. A. Shreiner, Supt. of Public Grounds and Buildings, Capitol Building, Harrisburg, Pa.

Bungalow, Chester, Pa. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owner, S. M. Challenger, Chester, Pa. Suteco, 1½ stories, 35x31 feet, slate roof, hot air or hot water heating, combination lighting, pine floors. Architect taking bids, due as soon as possible. R. L. Taylor, Chester, Pa., is figuring.

Rectory (add.), Chester, Pa., \$2,000. Architect, Clarence W. Brazer, Crozer Building, Chester, Pa. Owners, St. Paul's P. E. Church, Chester, Pa. Brick, 2 stories, 66x19 feet, consists of general interior and exterior alterations, tin roof. Revised plans in progress.

Stores (6) and Apartments (7), Chester, Pa. Architect, C. D. Thompson, Ford Building, Wilmington, Del. Owner, Gerson Heiser, Chester, Pa. Brick, 2 stories, hot water heating, electric lighting, flush bulks (heating, plumbing and electric work reserved). Architect taking bids, due as soon as possible. S. A. Hewes & Son, R. H. Scroggins, Frazier Bros. and Wm. Ward, all of Chester, Pa., are figuring.

Building No. 62 (add.), Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Steel, 1 story, 150x50 feet, and 1 story, 80x20 feet, steel roof, cement floors, metal lath, roof ventilators, rolled steel sash, fire and hollow metal doors. Low bidders: George & Bost, 277 S. Eleventh street, Philadelphia, \$14,459, 58 days; Monaghan & Loebe, Inc., 3016 Chestnut street, \$15,110, 49 days.

Residence and Garage (remodeling), Merion, Pa. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, Chas. P. Vaughn, 5911 Overbrook avenue, Philadelphia. rick, plastered, 2½ stories, 57 x56 feet, wing 48x27 feet, tile roof, hardwood floors, vapor heating, electric lighting, tile and marble work. Architects have received bids.

Stable, Garage and (alts.) to Gate Lodge, Merion, Pa. Architects, Druckenmiller &

Williams, 1537 Chestnut street, Philadelphia. Owner, Chas. P. Vaughn, 5911 Overbrook avenue, Philadelphia. Brick and stucco, 2 stories and 2 stories and basement, 25x34 feet, tile and slag roof, hot water heating, electric lighting, tile work, cement and pine floors, metal lath. Architect have received bids.

Residence and Garage, City Line and Limekiln pike, Montg. Co., Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, frame and plaster, 2½ stories (9 rooms), shingle roof, hot water heating, combination lighting, hardwood floors, tile and marble work; garage, 1 story, 15x20 feet, shingle roof, cement floor, Artesian wells. Plans about completed. Bids will be taken about December 1st.

Mill Building, Third and Tilghman streets, Chester, Pa. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, Aluminum Brazing Co. of Penna., 628 Penn street, Chester, Pa. Stone foundations, brick, 1 story, 35x60 feet, slag roof, concrete floor, steam heating, electric lighting, mill work, hollow metal skylights, special mould fire brick forges. Owners are sub-letting all contracts.

Residences (2) (remodeling), Architects, Druckenmiller & Williams, 1537 Chestnut st., Philadelphia. Owner, Chas. P. Vaughn, 5911 Overbrook avenue, Philadelphia. rick and stone, 2½ stories, 81x58 feet, wing 47x28 feet, tile roof, tile, cement, oak and pine floors, steam heating, electric lighting, tile and marble work, stone foundations, metal weatherstrips. Architect have received bids.

Laundry Building (alts.), and Gardener's Cottage, Seybert Farms, Meadowbrook, Pa. Architect, Francis G. Caldwell, St. Girard Building, Philadelphia. Owners, The Seybert Institute, 419 South Fifteenth street, Philadelphia. Clayboards and mill work, plumbing, slate roof, pine floors, electric lighting, low tile, waterproofing and dampproofing (heating reserved). Architect taking bids, due November 28th. Specht & Sperry, Heed Building; W. John Stevens, Inc., Wyncoke, Pa.; Fesmire Bros., Glenside, Pa.; E. D. Lever, Abington, Pa., and Howard Amey, Ambler, Pa., are figuring.

Residence (add. and alt.), Paoli, Pa. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Owner, John O. Platt, Wayne, Pa. Brick and stone, 3 stories, shingle roof, tile and canvas roof, cement, brick and pier floors, metal lath, tile work, stone foundations (heating, lighting and plumbing reserved). Architects taking bids, due November 28. H. H. Burrell, 206 S. Quince street, is figuring. (Only bidder.)

Bungalow, Eagle road near West Chester Pike, Drexel Hill, Pa., \$12,000. Architect, Andrew Charles Bornzer, 717 Walnut street, Philadelphia. Owner, Mrs. Gertrude Leedon, Eagle road, south of West Chester Pike. Stone, 1½ stories, 38x62 feet, slate roof, hot water heating, electric lighting, tile and marble work, modern plumbing, hardwood

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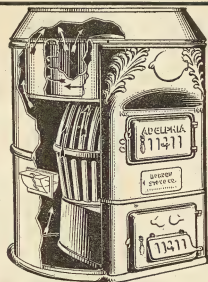
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floors. Architect taking bids, due as soon as possible. Alan G. Smith, 2135 North Sixty-third street; William Harry Roberts, Ardmore, Pa.; L. W. Goodman, Drexel Hill, Pa.; Oscar E. Lobb, Oakmont, Pa.; C. E. Lloyd, Eighth street and Sixty-sixth avenue, Oak Lane; and Wm. Delatour, Ardmore, Pa., are figuring.

Residence, Flourtown, Pa. Architect, private plans. Owners, name withheld. Frame and stucco, 2½ stories, 28x28 feet, slate roof, hot water heating, gas lighting, pine floors, hollow tile. J. Sims Wilson Co., 1125 Brown street, is taking sub-bids.

Engine House (extension), Bridgeport, Pa. Architect, Samuel T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Phila. & Reading R.R. Co., Reading Terminal, Philadelphia. Brick and concrete, 1 story, 90x112 feet, slag roof, concrete floors, rolled steel sash, roof ventilators, wire work, ornamental iron work. Owners taking bids, due December 3rd. F. W. Van Loon, Denekia Building; A. L. Carhart, Hale Building, and Stacy Reeves & Sons, 2011 Market street, are figuring.

Small Arms Proof House, Target House and Range, Frankford Arsenal and Holmesburg, Pa. Architect, private plans. Owner, U. S. Government, care of Col. George Montgomery, Frankford Arsenal, Philadelphia. Reinforced concrete, steel and stone, 1 story, 122x44 feet, and 1 story, 14x20 feet, range 949 yards, ready and slag roof, concrete and maple floors, electric lighting, hollow metal sash, metal lath, roof ventilators, waterproofing, wire work. Owners taking bids, due November 30th at 2 P. M. W. W. Anstine Co., 1218 Filbert street; Ketcham & McQuade, 1029 Brown street; Wm. R. Dougherty, 1610 Sanson street; Monaghan & Loose, Inc., 2016 Chestnut street, and Wark-Yardley Co., 1737 Filbert street, Philadelphia, are figuring.

Time Office and First Aid Building, White Haven, Pa. Architect, Geo. F. Schroeder, Wilkes-Barre, Pa. Owners, Wilmot Engine Co., White Haven, Pa. Brick and stucco, 1 story, 20x20 feet, asbestos shingle roof, steam heating, electric lighting, composition floors, metal lath. Owners are sub-letting.

City Hospital, Wilkes-Barre, Pa. Architect, Thos. Pedmore, Connell Building, Wilkes-Barre, Pa. Owners, City of Wilkes-Barre, care of Fred Goeringer, Department of Health. Brick, 2 stories, 21x31 feet, and 1 story, 81x31

feet, slate roof, steam heating, electric lighting, metal lath and sash, cement floors, metal doors, dumbwaiters, tile and marble work. Architect has received bids.

Blacksmith Shop, State street, Wilkes-Barre, Pa. Architect, Geo. F. Schroeder, Wertzkenon Building, Wilkes-Barre, Pa. Owner, Peter Frey, State street, Wilkes-Barre, Pa. Brick, 1 story, 40x80 feet, asbestos roof, plank floors, steam heating, electric lighting. Architect taking bids, due December 1st. W. J. Smith, Shepherd Const. Co., Waborn & Barney, J. Curtis & Co., O. J. Hebrons, and John E. James, all of Wilkes-Barre, Pa., are figuring.

Store and Apartments (alts. and add.) (16 apartments), Wilkes-Barre, Pa. Architects, Knapp & Bosworth, Wilkes-Barre, Pa. Owner's name withheld. Brick, 3 stories, 128x100 feet, pine floors, steam heating, electric lighting, tile and marble work, hollow metal sash and skylights, fire escapes and iron stairs, metal lath. Plans about completed. Architects ready for bids.

Residence (twin), Essington, Pa. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner's name withheld. Brick, 2 stories, 35x48 feet, slag roof, hardwood floors, steam heating, electric lighting. Plans in progress.

PENNSYLVANIA Contracts Awarded

Cottage, Beechwood Park, Montgomery Co., Pa. Architect, Edw. T. Boggs, 136 South Fourth street, Philadelphia. Owner, Miss Mary Crawley, care of architect. Frame, 2½ stories, 30x30 feet, shingle roof, pine floors (hot water heating or hot air heating reserved), electric lighting, wire work, stone foundations. Contract awarded to W. L. Evans, Beechwood, Pa.

Residence (fire repairs), Lathan Park, Pa., \$5,000. Architect, private plans. Owners, Chas. E. Cockran, Lather Park, Pa. Consists of plastering, millwork, painting, plumbing, slate roof, electric lighting, pine and oak floors. Contract awarded to E. R. Hall, 34 S. Seventeenth street, Philadelphia.

Parish House (alt. and add.), Wyndmoor, Pa., \$1,800. Architect, private plans. Owners, R. C. Ch. of the Seven Dolours, Rev. M. J. Corley, Wyndmoor, Pa. Brick, 1 story, 18x24 feet, tin roof, pine floors (heating, plumbing

and lighting reserved). Contract awarded to Henry P. Schneider, 3713 Old York road.

Boiler House, Scranton, Pa., \$1,500. Architects, Duckworth Bros., Coal Exchange Building, Scranton, Pa. Owners, Maccar Truck Co., Scranton, Pa. Brick, 1 story, 28x28 feet, asbestos roof, cement floors, electric lighting, rolled steel sash. Contract awarded to L. T. Stipp, Scranton, Pa.

Tunnel (pedestrian), Princeton avenue, Northmore, Pa., \$10,000. Architect, J. C. Autin, Wilmington, Del. Owners, P. W. & B. R. R., Wilmington, Delaware. Brick, steel and concrete. Contract awarded to A. L. Carhart, Hale Building, Philadelphia.

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NEW JERSEY Construction News

School (add.), near Riverton, N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owner, Cinnaminson School Board, Benj. Lippincott, sect'y School Board, Cinnaminson, N. J. Brick, 2 stories, addition 23x64 feet, slate roof, pine floors (4 rooms). Plans completed. Owners will advertise for bids in about one week.

Post Office, Woodbury, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Brick, 1 story, 55x60 feet, composition roof, steam heating, electric lighting, marble and terrazzo work, rolled steel sash, hollow metal skylights, kalamine doors, ornamental iron work, concrete floors, metal lath, safety treads, roof ventilators, metal weatherstrips, waterproofing and dampproofing. Low bidders: Hagen Co., Scranton, Pa., \$53,698; E. T. Abbott Const. Co., New York City, \$54,210; Thos. V. Cissell, Newark, Ohio, \$55,470; W. W. Anstine Co., 1218 Filbert street, \$57,300.

Hotel (alts. and add.), 1905 Pacific avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N.

J. Owners, Josiah H. White & Son Co., Marlborough-Blenheim, Atlantic City, N. J. Brick, consists of concrete and cement work, iron and steel, fire escapes, slag roof heating and lighting fixtures reserved). Architect has received bids.

Apartment, Atlantic City, N. J., \$8,000. Architect, Samuel Headley, Atlantic City, N. J. Owner's name withheld. Brick, 2 stories, 30x55 feet, slag roof, pine floors, hot water heating, electric lighting. Plans in progress.

School, Cambridge, Burlington County, N. J. Architect, A. W. Kleeman, First National Bank Building, Trenton, N. J. Owners, School Board of Burlington County, Cambridge, N. J. Brick, 1 story and basement, 68x62 feet, slate and slag roof, cement and maple floors (steam heating, electric work and plumbing reserved). Plans completed. Owners ready for bids.

Residence (6), Wainwright avenue, Trenton, N. J. Architect, private plans. Owner, Genaro Puccillo, Trenton, N. J. Brick, 2½ stories, slate and tin roof, electric lighting. Owner is building.

NEW JERSEY Contracts Awarded

Residence, Atlantic City, N. J., \$7,500. Architect, Seward G. Dobbins, 10 South Virginia avenue, Atlantic City, N. J. Owner, Mr. Co-

hen. Atlantic City, N. J. Brick and stucco, 2 stories, 26x40 feet, slate roof, hot water heating, electric lighting, tile work, hardwood

floors. Contract awarded to Charles S. Corson, Linwood, N. J.

Store Front, East State street, Trenton, N. J. Architect, A. W. Kleeman, First National Bank Building, Trenton, N. J. Owner, Jonas A. Fuld, Trenton, N. J. Brick, 1 story, 25 feet, flush bulks. Contract awarded to John Sieger, Trenton, N. J.

Bank Building, Kaighn and Haddon avenues, Camden, N. J., \$12,000. Architect, private plans. Owners, Parkside Trust Co., Camden, N. J. Brick, marble and iron, 1 and 2 stories, 24x65 feet, slag roof, steam heating, electric lighting, tile and marble work, hollow metal skylights, tile floors. Contract awarded to Mockett Const. Co., Sixth and Market sts., Camden, N. J.

Scouring Mill, Camden, N. J. Architect, private plans. Owners, Eavenson & Levering Co., 217 Atlantic avenue, Camden, N. J. Reinforced concrete and steel, 1 story, 110x240 feet, slag roof, cement floors, asphalt paint, rolled steel sash, ventilators. Contract awarded to George Kessler Contracting Co., Drexel Building, Philadelphia, Pa.

Maryland Construction News

Control House, Sparrows Point, Md. Architect, private plans. Owners, Maryland Shipbuilding Co., Sparrows Point, Md. Brick, 1 story, 98x41 feet, stone foundations, slate, slag and asphalt roof, electric lighting, hollow tile, metal sash, hardware. Owners taking bids. Consolidated Eng. Co., Calvert Building; Singer-Pentz Co., Equitable Building, and Cowan Co., 106 West Madison street, Baltimore, Md., are figuring.

Dwellings (2), Garrison avenue, Baltimore, Md., \$8,000. Architect, private plans. Owner, George A. Morria, Title Building, Baltimore, Md. Frame, 2½ stories, 28x28 feet, slate roof, steam heating. Plans completed. Owner ready for sub-bids.

Garage and Store, 1640-42 East Fayette street, Baltimore, Md. Architects, Callis & Callis, 2055 Kennedy avenue, Baltimore, Md. Owners, Home Garage Corp., Equitable Building, Baltimore, Md. Brick, slag roof, steam heating, electric lighting. Mr. Merrin, 944 Equitable Building, Baltimore, Md., is taking sub-bids.

Shed and Plate Mill, Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Company, Sparrows Point, Md. Reinforced concrete, slag roofs. Owners taking bids. Consolidated Eng. Co., Calvert Building, Baltimore, Md., are figuring.

Surgical Dressing Room, Baltimore, Md. Architect, James A. Wetmore, Treasury Building, Washington, D. C. Owners, U. S. Marine Hospital, Baltimore, Md. Consists of steam heating, electric lighting, plumbing, painting, brick work, cement floors, plaster, tin and slag roofs. Architect taking bids, due December 4th. Clarence E. Stubbs, Equitable Building, Baltimore, Md., is figuring.

Maryland Contracts Awarded

Bank (alt.), South and German streets, Baltimore, Md. Architects, Parker, Thomas & Rice, Baltimore, Md. Owners, Federal Reserve Bank, George J. Seay, Richmond, Va. Altera-

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tions. Contract awarded to H. D. Watts & Co., Garrett Building, Baltimore, Md.

Gymnasium, Liberty Heights avenue, Baltimore, Md. Architects, Smith & May, Calvert Building, Baltimore, Md. Owners, Park School, Liberty Heights avenue, Baltimore, Md. Frame, 1 story, 41x81 feet, rubberoid roof, concrete foundations, gas heating, electric lighting, wire work. Contract awarded to Walter Burnham, Law Building, Baltimore, Md.

Storage Building, Light and Conway streets,

Baltimore, Md. Architect, private plans. Owners, Baltimore Steam Packet Co., Baltimore, Md. Frame, 1 story, 94x10 feet. Contract awarded to Sanford & Brooks Co., Baltimore, Md.

NPlate Shop, Baltimore, Md. Architects, Parker, Thomas & Rice, Baltimore, Md. Owners, Bartlett-Hayward Co., Parkin and Pratt sts., Baltimore, Md. Brick and steel, 1 story, 300x50 feet. Contract awarded to Morrow Bros., Fidelity Building, Baltimore, Md.

Miscellaneous Construction News

Warhead Storage Building, Newport, R. I. Architect, private plans. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, chief, Navy Department, Washington, D. C. Brick and steel, 1 story, 79x37 feet, asbestos shingle roof, rolled steel sash, hollow metal doors, roof ventilators. Owners have received bids.

Liberal Arts Building, Wellesley, Mass. Architects, Day & Klauder, 925 Chestnut street, Philadelphia. Engineers, French & Hubbard, Boston, Mass. Owners, Wellesley College, Wellesley, Mass. Brick, fireproof, 3 and 4 stories, 60x200 feet, limestone trimming, steam heating, electric lighting, cement floors, terrazzo work, rolled steel sash, hollow tile, elevator. Architects taking bids, due December 12th, on plumbing and also general bids. Engineers taking bids on electrical work, heating and elevator. J. W. Bishop Co., Worcester, Mass.; J. T. Wilson & Son, Nahant, Mass.; L. D. Willcutt & Sons Co., Boston, Mass.; A. C. Whitney, Boston, Mass.; George A. Fuller Co., 111 Broadway, New York City, and the Matthews Const. Co., Princeton, N. J., are figuring.

Power House, Salineville, Ohio. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owners, Columbiana Coal and Clay Co., Whitomand Building, Philadelphia. Hollow tile, 1 story, 24x40 feet, slag roof, concrete floors. Plans completed. Owners taking sub-bids.

General Foundry, Navy Yard, Washington, D. C. Owners, U. S. Govt., Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Architect, private plans. Reinforced concrete and brick, 3 stories, 201x132 feet, slag roof concrete and maple

floors hollow tile, metal lath, rolled steel sash, fire doors. Owner has received bids.

Cadet Laundry, West Point, N. Y. Architects, Wm. Goding, New York City, and Col. E. J. Timberlake, Quartermaster's Corps, West Point, N. Y. Owners, U. S. Govt., Washington, D. C. Brick, stone and reinforced concrete, 2 stories and basement, 123x86 feet, composition roof, granolithic and maple floors, hollow tile, electric lighting, tile and marble work, hollow metal sash, fire escapes, iron stairs, metal window guards, stone foundations, waterproofing and dampproofing (elevators reserved). Col. E. J. Timberlake, Quartermaster's Corps, West Point, N. Y., taking bids, due December 12th. George & Borst, 277 South Eleventh street, are figuring.

Bridge No. 51, south of Valley, Wilmington Branch. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Twelfth and Market sts., Philadelphia. Concrete, steel and timber, 24x80 feet. Owners taking bids, due November 30th. A. L. Carhart, Hale Building, Philadelphia, is figuring.

Residence, Newark, Del. Architect, R. C. Tidall, 914 E. Orange street, Wilmington, Del. Owner, Geo. L. Townsend, Ford Building, Wilmington, Del. Frame, 2½ stories, 30x40 feet, shingle roof, electric lighting, oak or pine floors. Contract awarded to Gustav Lysander, Wilmington, Del.

Employment Office, Wilmington, Del. Architect, private plans. Owners, Harlan & Hollingsworth, Wilmington, Del. Brick, 1 story, 57x30 feet, slag roof, pine floors, electric lighting. Contract awarded to Geo. Charles & Son, 701 Tatnall street, Wilmington, Del.

brick, 1 story, 16x22 feet, tin roof.

Garages (2), 761 E. of Ridge avenue, \$800. Geo. Bovard (O), 554 Minese street. John J. Hurley (C), 4416 Casult street. Brick, 1 story, 18x25 feet, slag roof.

Garages (2), 1721-23 Johnston avenue, \$600. F. S. Park (O), 230 South Forty-sixth street. Nevill & Alvin (C), Eighteenth and Oregon avenue. Stone, 1 story, 12x16 feet, slag roof.

Dwellings (12), Sixty-fourth street and S. on Jefferson street, \$84,000. Moss & Taylor (O and C), Fifty-eighth and Girard avenue. Stone and brick, 3 stories, 24x36 feet, slate roof, steam heating.

Garage, eKnsington and Helton streets, \$3,000. Chas. Develin (O), on premises. Harry Gill, Jr. (C), 2515 Germantown avenue. Brick, 1 story, 14x30 feet, slag roof.

Dwellings (26), corner Hutchinson and Courtland street, \$97,500. Daniel Crawford, Jr. (O and C), 701 North Sixty-third street. Stone and brick, 2 stories, 20x34 feet, slag roof, hot water heating.

Shed, 1222 eBach street, \$2,000. Thomas Bros. Co. (O), 324 E. Allen street. B. R. Grove (C), Merchantville, N. J. Brick wall, 20x124 feet, slag roof.

Dwellings (18), Sixty-third and Delancey streets, \$74,000. Harry Green (O), 1511 S. Fifth street. Herman Beckershoff (C), 6212 Spruce street. Stone and brick, 2 stories, 15x32 feet, slag roof, hot water heating.

Garage, Kinsey and Tackawanna streets, \$400. Wm. Ratelip (O), 4503 Tackawanna street. Frank Brogley (C), 1658 Unity st. Brick, 1 story, 14x18 feet.

Garage and Office, Westmoreland and Delaware river, \$5,000. Pearson and Ludascher (O), Westmoreland street wharves. H. G. Evans (C), 1417 North Warnock street. Brick, 2 stories, 57x31 feet, slag roof, steam heating.

Garage, 3919 North Park avenue, \$400. Mrs. H. Green (O), on premises. Mrs. A. Green (C), on premises. Brick, 1 story, 12x15 feet, slag roof.

Garage, Walnut and Fifty-eighth streets, \$500. S. Feldman (O), 200 North Sixty-first street. H. Feldman (C), 5016 Parkside avenue. rick, 9x14 feet, slag roof.

Alterations and Additions

Dwelling, 1355 Melville street, \$700. William S. Morris (O), 439 Land Title Building. George C. Lyon (C), 631 S. Forty-second street. Brick, 1 story, 11x12 feet, tin roof.

Dwelling, 1708 Welsh Road, Bustleton, \$600. B. Twining (O), on premises. C. H. Weiss (C), 9512 Bustleton avenue. New shingle roof.

Dwelling and Store, Fountain and Pechin streets, \$400. Mrs. Mary Grow (O), on premises. Wm. H. Eddleman & Sons (C), 453 Green Lane. Alterations.

Store and Dwelling, 3032 Kensington avenue, \$500. M. A. Goetz (O), 3030 Kensington avenue. E. J. Shuttleworth (C), 3054 Kensington avenue. New flush bulk.

Dwelling, Welsh Road, Bustleton, Pa., \$500. Anna Wilkinson (O), on premises. Geo. Wilkinson (C), 1036 Widener Building. Interior alterations.

Garage, 5927 Kingsessing avenue, \$600. S. A. Erwin (O). Wm. J. Erwin (C). Brick, 2 stories, 15x15 feet, cement floor, slag roof.

Store, 4642 Paul street, \$450. Castor Bros. (O), 4649 Frankford avenue. Geo. Reimer (C), 4842 Hawthorne street. Brick, 1 story, 16x24 feet, slag roof.

Office, 40 N. Front street, \$900. Robin &

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Pipe Storage, Garnet and Cambria streets, \$100,000. H. Belfield Mfg. Co. (O), North Broad street. Wm. Steel & Sons Co. (C), 30 South Fifteenth street. Brick, 1 story, 295x271 feet, Gypsum roof.

Garage, Almond and Westmoreland streets, \$5,000. Ferdinando Pezzillo (O and C), 3347 Almond street. Brick, 1 story, 40x80 feet, slag roof, cement floors.

Store House, Ontario and James streets, \$1,550. Niagara Thread Co. (O), on premises. M. Monta & Co. (C), 3931 North Fifth street. Iron on iron, 18x70 feet, 1 story.

Hospital, Nineteenth and Spring Garden streets, \$60,000. Osteopathic Hospital (O). John N. Gill & Co. (O), Otis Building. Brick and concrete, 2 stories, 46x102 feet, slag roof.

Garage, 5401 Woodbine avenue, \$900. W. P. Johnson (O and C), 4039 Lancaster avenue. Brick, 1 story, 16x22 feet, tin roof.

Garages (2), 2400 and 04 North Fifty-fourth street, \$1,800. W. P. Johnson (O and C), 4039 Lancaster avenue. Brick, 1 story, 16x22 feet, tin roof.

Garage, 5411 Wynnefield avenue, \$900. W. P. Johnson (O and C), 4039 Lancaster avenue.

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Haas (O), on premises. Paul J. Hoft (C), 245 S. Eighth street. Steam heating.

Dwelling, 3905 Chestnut street, \$600. James Hope Estate (O), on premises. John F. Frachsel (C), 230 Arch street. Replace hot water heater.

Dwelling, 534-56 N. Thirteenth street, \$1,200. E. H. Charles (O), 1304 Green street. Joe F. Myers, Jr. Co. (C), 1237-39 Ridge avenue. Brick, 1 story, 5x7 feet, and fire repairs.

Dwelling, 540 N. Fifty-second street, \$500. Joseph Schroeder (O), on premises. W. H. Gilbert (C), 948 N. Forty-eighth street. Brick, 1 story, 31x20 feet.

Leather Works, Orthodox and Belgrade streets, \$350. J. Dombrowski (O and C), on premises. Frame, 1 story, 16x50 feet, slag roof.

Factory, 429-37 Moyer street, \$1,900. National Envelope Co. (O), on premises. S. W. Barnes & Son (C), 2104-06 N. Sixth street. Steam heating system.

Saloon, Eleventh and Ritner streets, \$1,000. J. J. Cullen (O and C), on premises. Alterations.

Shop, 1821 Bainbridge street, \$1,300. J. Williams (O), 235 S. Twelfth street. D. K. Daragh (C), 235 S. Twelfth street. Brick, 2 stories, 15x36 feet, slag roof.

Garage, 2001 Brandywine street, \$1,300. Thomas Roug (O), on premises. S. J. Rea & Son (C), 1608 Fairmount avenue. Brick, 1 story, 29x18 feet, slag roof.

Dwelling, 214 E. Haines street, \$600. A. Gargen (O), on premises. Joseph Gargen (C), 214 E. Haines street. Brick, 1 story, 11x26 feet, tin roof.

Garage, 1335 Ridge avenue, \$650. M. O'Malley (O), 1624 Ridge avenue. H. Corwin (C), 1429 Brown street. Steam heating system.

Stone Wall, 127 E. Mermaid avenue, \$50. C. O'Neill (O), on premises. O'Neill Co. (C), 127 E. Mermaid avenue. Stone walls, 30x20 feet, 10 feet high.

Store and Dwelling, Patter and Clearfield streets, \$300. R. Ross (O), 741 E. Folrod street. M. Morrison (C), 2322 Howard street. New front, brick.

Garage, Croskey and Columbia avenue, \$8,000. John S. Serrill Estate (O), Fifteenth street, below Glenwood. H. P. Schneider (C), 3713 York Road. Fire repairs and alterations.

Store and Storage, 1627 Chestnut street, \$13,000. Newman & B. Alexander (O), 1328 Chestnut street. D. Henwood (C), 1509 Wood street. Stone and brick, 3 stories, 18x155 feet, slag roof.

Dwellings, 919-21-23 S. Thirteenth street, \$15,000. Wm. T. Plummer (O and C), 1219 Carpenter street. Fire tower, 3 stories, 15x13 feet, slag roof. Interior alterations.

Store and Dwelling, Lindenwood and Market streets, \$1,500. Wm. H. York (O and C),

Fifty-third and Ludlow streets. Brick, alterations for garage.

Wagon Shed, Nanock and Catharine streets, \$350. M. D. Rocco (O), Tenth and Catharine streets. P. Peti (C), Tenth and Catharine streets. Brick, 1 story, 17x33 feet, slag roof.

Machine Shop, Twentieth and Indiana avenue, \$5,000. M. L. Bayard & Co. (O and C), on premises. Alterations.

Rooming House, 3500 Hamilton street, \$2,400. Mrs. J. Haring (O), on premises. M. W.

Dilks (C), 226 Darby. Steam heating, alterations.

Garage, Twenty-seventh and Huntington streets, \$1,500. Martin Kelley (O), 2551 W. Harold street. J. G. Miller (C), 2315 West Clearfield street. Brick, 1 story, 73x20 feet, slag roof.

Warehouse, 912-14 Race street, \$2,000. J. Lit (O), Eighth and Market streets. J. N. Gill Co. (C), Otis Building. Alterations, metal skylight.

Store Building, 1109 Market street, \$1,000. James Elverson, Jr. (O), on premises. Roydhouse-Arey Co. (C), 112 N. Broad street. Alterations.

Shed, 1529 N. Twelfth street, \$500. E. M. Allen (O), 1237 W. Columbia avenue. Samuel R. Deturle (C), 1719 N. Thirteenth street. Alterations.

Brass Foundry, 1129 Cherry street, \$2,700. Estate of L. R. Halshed (O), 1129 Cherry street. Frank G. English (C), 1608 Carlisle street. Fire repairs.

Factory, 150 N. Fourth street, \$2,200. Ed. B. Shubb (O), 152 N. Fourth street. Frank G. English (C), 1608 N. Carlisle street. Brick, 3 stories, 8x18 feet, and fire repairs.

Dwelling, 4607 Spruce street, \$600. J. R. Prentiss (O). Wilbert O. Springer (C), 1624 Latimer street. Interior alterations.

EFFECTS OF GRADING OF SANDS AND CONSISTENCY OF MIX UPON THE STRENGTH OF CONCRETE

An interesting paper was read by Mr. L. N. Edwards, supervising engineer of bridges for the city of Toronto, at the recent convention of the American Society for Testing Materials, held in Atlantic City, June 26 to 29. The subject of Mr. Edwards' paper was "The Effects of Grading of Sands and Consistency of Mix Upon the Strength of Plain and Reinforced Concrete." The paper presented the results of three series of tests made by the Department of Works of the city of Toronto, under the direct supervision of Mr. Edwards. These tests were under taken with the object of securing information relating to (1) the influence of the grading of sand; (2) the effect of the consistency of mix upon the strength and physical characteristics of the concrete properties; and (3) the effect of varying the time of mix.

The author described the methods used and the results obtained, in considerable detail, and drew the following conclusions:

Common Practices Unreliable.

1. The commonly practiced "visual examination" test of sand aggregate for concrete is generally unreliable, since it gives at best only a superficial knowledge of the cleanliness of a given sand. Its adaptation to the determination of grading could be of value to the observer only after long experience in the granulometric analysis of sands.

2. The generally accepted practice of proportioning a concrete mix by volume, as, for

example, 1 part cement, 2 parts sand and 4 parts broken stone, is impracticable and unscientific, since it does not take into account the adaptability of the grading of a given sand to the production of a dense, strong and reliable concrete. Proportioning by volume, as commonly used, gives no guarantee of the production of a concrete having a desired strength, hardness, or other physical properties.

3. The strength, toughness, and durability of the concrete to be secured from the use of a given sand can be determined only by an actual test of that sand in a properly prepared concrete.

4. In field operations incident to spading, slicing, or otherwise compacting the concrete, the movement of the water content of the mass is intensified, whenever the sand aggregate contains insufficient fine material to hold the cement in suspension by the formation of an adequate amount of sandy paste. The free movement of the water tends to produce an improper distribution of the cement.

Amount of Water.

5. The use of a quantity of water sufficient to produce a concrete, the mortar component of which is of a saturated, sticky, semi-plastic consistency, is for most practical purposes required, in order to facilitate economical and efficient placing. This quantity of water is ample for the development of the proper functions of the cement. An increase in the

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quantity of water used results in a proportionate decrease in the strength of the concrete. This decrease is in no sense a function of the proportions of the mix.

6. The excess water in an over-saturated concrete necessarily occupies space and thereby bulks-up the mass. By reason of its high surface tension, it forms water globules which, although somewhat affected by the weight of the concrete, are nevertheless distributed throughout the mortar component and are accumulated underneath the particles of the sand and stone aggregates and the reinforcing steel. By evaporation, this excess water ultimately disappears, leaving a considerable volume of water voids and cavities which constitute an extremely important factor in the strength and reliability of the concrete.

Bond Between Concrete and Reinforcing.

7. The critical failure of reinforced concrete depends upon the intensity of the bond existing between the concrete and the steel reinforcement. Concrete containing an excess of water not only develops less surface contact with the steel on account of the resulting increase in the volume of water voids and cavities; but, in additions, the excessive laitance produced by the water tends to accumulate around the reinforcement, thus contributing materially to a decrease in strength. This condition becomes further aggravated by reason of the tendency of the laitance to become less resistant with age.

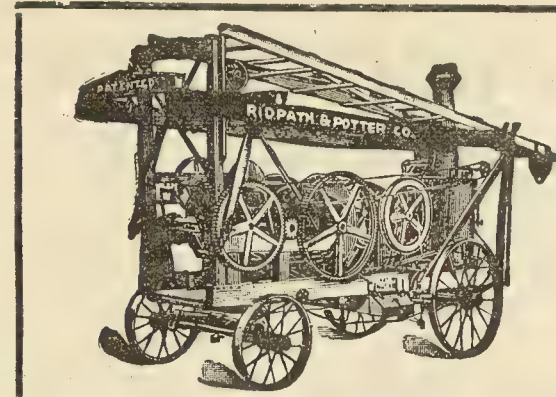
8. For the various grades of concrete, the minimum ultimate strengths assumed in the modern practice of plain and reinforced concrete design are not assured by the commonly specified requirements for sand and stone aggregates, and by the present lack of uniformity and of efficiency in field methods and operations.

9. The results obtained show no definite relation between the compressive strengths of 1:3 mortar cubes, and the compressive strengths of the concrete produced from the same sands.

In the course of the paper the author took occasion to submit the following specifications for a cement to be used for general concrete purposes. These specifications assume that provision is made for the proper proportioning of the cement content of the mix in cases where cements failing to meet the strength requirements are used. They also assume that proper provision is made for the limiting of the water content of the mix to that required to produce a saturated, sticky, semi-plastic mortar:

"Sand shall be of hard, preferably silicious, material, clean, rough, free from dust, soft particles, vegetable loam or other deleterious matter. It shall consist of particles graded from coarse to fine, of sizes that will pass, when dry, a sieve having four meshes per linear inch. The grading of particles shall otherwise conform to the following:

"Not more than 80 per cent. shall pass a



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sieve having 10 meshes per linear inch, not more than 55 per cent. shall pass a sieve having 20 meshes per linear inch, not more than 15 per cent. shall pass a sieve having 50 meshes per linear inch, and not more than 5 per cent. shall pass a sieve having 100 meshes per linear inch. Upon the 10, 20 and 50-mesh sieves an allowable variation of 5 per cent. will be permitted.

"Sand, when combined with a normal Portland cement and 1-inch broken granite, limestone or trap of good quality in the proportions 10 lbs. of cement, 21 lbs. of dry sand, and 35 lbs. of dry broken stone, thoroughly mixed with $4\frac{1}{4}$ lbs. of water for not less than 1 minute and molded into cylinders 6 inches in diameter by 12 inches long, shall develop a compressive strength of 1,300 lbs. per square inch when tested at the age of 7 days and a strength of 2,200 lbs. per square inch at the age of 30 days. Strength shall be determined from an average of five cylinders tested at each age. The cylinder shall be removed from the form 24 hours after molding and shall be stored in a moist closet or in damp sand until tested.

"Sand failing to develop the above strengths may, at the option of the engineer, be accepted for use, provided that the proportion of cement be increased by an amount sufficient to fulfil the strength test requirements."

ADJUSTING INDUSTRIES.

What is non-essential business? Many inquiries have been received by the Chamber of Commerce of the United States, asking as to the manner in which this would be determined by the Government, what course will be followed in withdrawing labor and materials from such industries as may be regarded as non-essential during the war for the necessities of industries essential to the war. No policy in this connection has been announced by the Government, but business throughout the country is eagerly awaiting an expression of opinion from the Federal authorities.

Before the business is classified as non-essential and deprived by active government of labor and materials the industry, through duly elected representatives, should be given an opportunity to discuss the matter; to learn the premises of the

Government and the reasons for action.

Waddill Catchings has expressed his opinion in the following terms: "No action except emergency action should be taken, except in accordance with some general plan, based upon a thorough survey of industry. If unnecessary hardship is to be avoided, if there is to be no discrimination, the Government should not act until a general plan has been formulated and made known to the business of the country."

The concentration of industrial energy toward winning the war appeals to all, and every industry can be relied upon to assist in bringing itself into adjustment with the war needs of the country. If the Government acts in this connection with sufficient dispatch the industries of the country may be given an opportunity to meet the needs of the emergency in a gradual manner, and after deliberate planning. With English experience as a guide, and with the unhesitating support which business has given to the Government in a national effort, full opportunity is afforded for deliberate planning and adjustment.

Where an industry is regarded as non-essential and must be deprived of labor and materials it is pointed out such deliberate planning may lead to the use of substitute materials or different processes of production. In this manner unnecessary hardship may be avoided.

It should be a cardinal principle that the normal structure of business should be maintained during these abnormal times as far as possible. Therefore, consideration should be given to the possibility of allowing non-essential business a proportion of its requirements of labor and materials so that some organization may be retained to be developed again upon the return of peaceful conditions.

Furthermore, when the Government is forced to deprive a business of materials and labor because it is non-essential, an effort should be made by the Government to place with the industry orders for product needed in the war. In this manner a helping hand may be given to business suffering solely through sacrifice for the common good.

In this same connection it may be said

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that if men are to be withdrawn from industrial communities where they have houses and gathered in manufacturing centres already congested there is created a great housing problem in connection with the production of war supplies. But if in placing the war orders effort is made to produce war supplies in the centers where labor is housed not only will congestion in munition centers be relieved, but there will be avoided, at the end of the war, the great problem of moving labor back to the normal producing centers.

One of the reasons for suggesting the formation of War Service Committees in industries was to bring about an early consideration of the above problems and to direct the attention of industries to the need in these abnormal times of preparing for diversified or unusual production to keep the industries intact during the war. Such committees could effectively present to Government authorities the manner in which those industries might well conform to war-time conditions. In a democracy it is certainly far better for industries to become adjusted to new conditions by co-operation between the industries and the Government rather than by compulsion of drastic and unprecedented Government action.

—“New York Real Estate Record.”

TOOLS OF INDUSTRY.

Economists recognize that it is possible only through increased production of living necessities to decrease their cost. Raw material, labor, and tools of industry are essential for production. Improved tools of industry in ever increasing number and variety have for generations past been eliminating waste in raw material and have been conserving labor.

the present exceptional demand for production on the one hand and a scarcity of raw material and labor on the other, an unusual development of tools of industry is the only alternative, and is now imperative. Public welfare demands this exceptional development of tools of industry in the present crisis.

Better tools of industry better mobilized means war munitions of all sorts supplied more promptly and in vast quantities. More factories of more efficient equipment always resulted in cheaper and better food and clothing. Better means of transportation and distribution makes them more available. More housing means not only lower rents, but also increased efficiency in labor through better health and morale.

Many building and engineering structures must be erected before mechanism can be installed, and they are indeed nec-

essary for the building and assembling of the mechanisms themselves. Buildings, hospitals, factories, railroads, etc., are tools of industry.

How can the construction industry, which while highly specialized, and poorly organized and decentralized, be adjusted to meet the needs of the day without shock and set-back to its effectiveness? Obviously, first, a thorough knowledge of the present day facts—actual conditions prevailing throughout the country—at least in the great industrial centers, is necessary. The movement instituted recently in New York to ascertain the facts in that industrial center regarding the demand for factories, warehouses, housing, etc., the available supply of materials, their cost and their substitutes—the supply of labor—transportation facilities—and money, which has been followed by the Association of Commerce of Chicago, has already spread to Minneapolis, Detroit, Louisville, Ky., and Worcester, Mass.

These are civic movements not confined to the construction industry line. They are along the lines of organization laid down by Director Gifford, of the Council of National Defense, and point toward centralization in a National Construction Advisory Board of some sort.

The consensus of facts and opinions thus crystallized will work towards public welfare and be of aid to the Government in the nation's main objective, the speedy winning of the war.

The October issue of the U. S. Bureau of Labor Statistics quotes a report from the United States Consul at London dated August 11, 1917, in substance as follows:

“Since 1906 there has been a decrease in the building of houses for the working classes. With the outbreak of the war practically a complete cessation of house building set in, except in munitions area.

“One of the most important questions and one now which has assumed political importance, is the housing of the working classes. The local Government Board has requested town and urban authorities throughout the country to report not later than October the housing requirements of the people in their towns and districts.

“It is admitted by the Board that 500,000 houses are now urgently wanted, but the Joint Committee on Labor Problems assumes that after the war at least 1,000,000 are necessary costing \$1,200,000,000. On the question of finance, Government aid has been promised. In the meantime a grant of \$97,000,000 has been asked for by housing organizations.

“The Committee's task will include the working out of the best scheme whereby large numbers of skilled laborers in the

building trades can be secured; the method of applying the policy of grants in aid; the consideration of evidence respecting particular areas where specially prompt measures are necessary and the amendment of by-laws relating to construction, etc.

“It is reported that at an early date Government approval will have been granted and that in order to prevent rents being higher than in pre-war times, financial assistance will be provided.”

—“New York Real Estate Record.”

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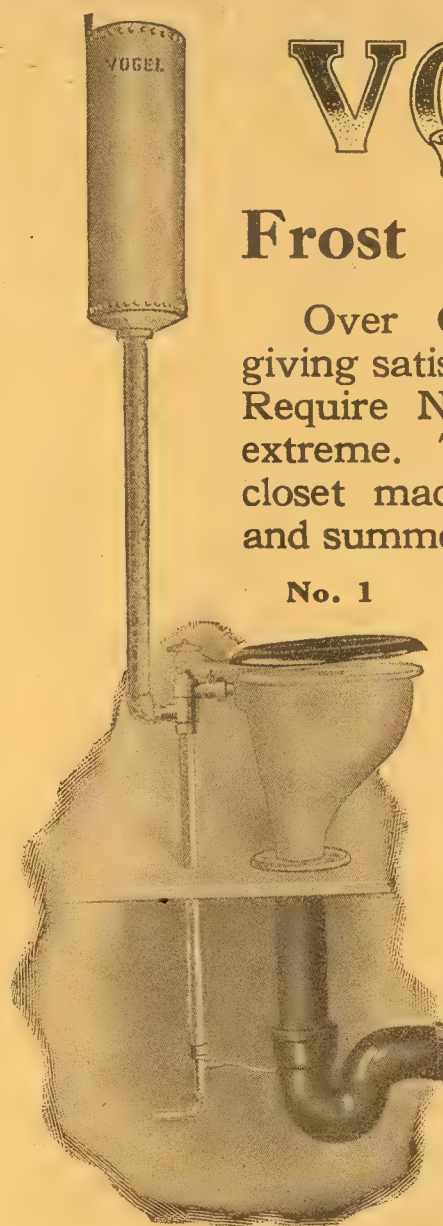
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December 5, 1917

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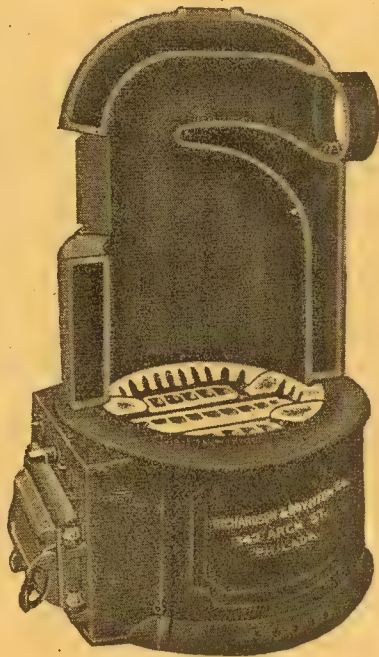
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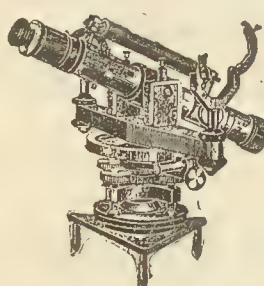
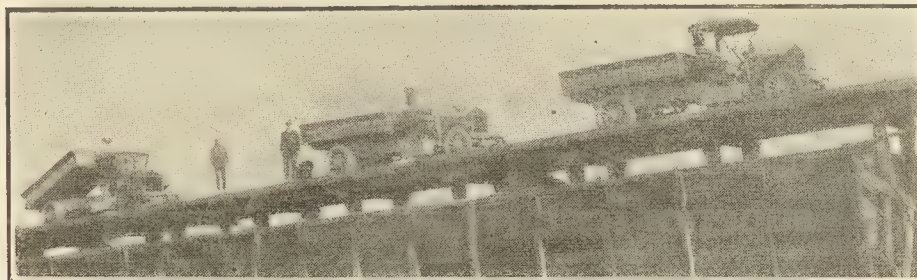
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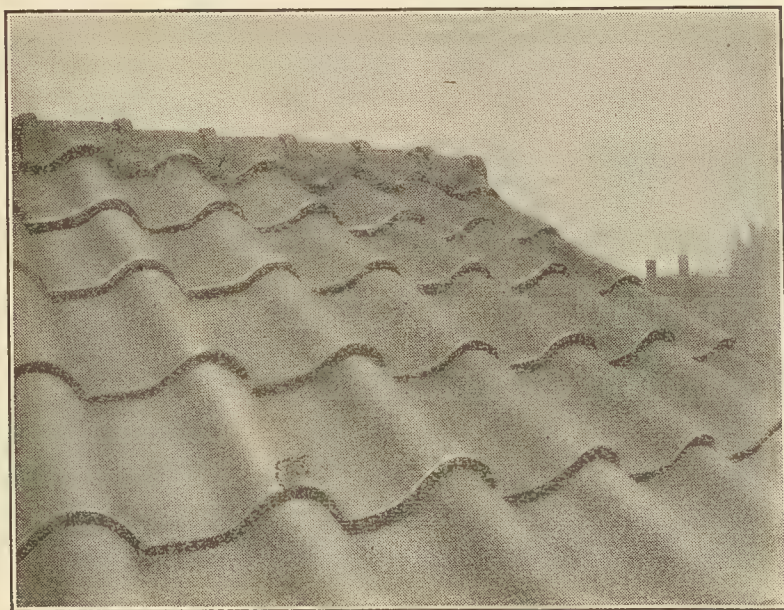
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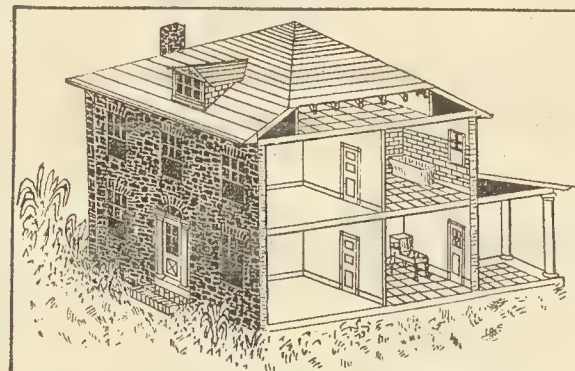


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

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As The Editor Sees It



THE housing situation shows signs of becoming serious. Among other logical consequences of our entry into the tremendous world struggle now waging in Europe we face the sudden upspringing of new industries, the expansion of old industries, the hasty creation of new and vast organizations on a scale to meet novel, extraordinary and unexpected demands. From a nation of peaceful shop-keepers we have become overnight, as it were, a nation of determined militarists and munition makers. We find ourselves transformed into a position of vast, solemn, and altogether unanticipated responsibility. We have not merely to organize and equip an army greater in man power than anything we have previously known, but we are obligated to devise means of transporting that army to foreign soil, which means ships, to provide it with food and clothing and equipment, which means more ships and to supply it with all of the necessities of the highly complicated thing now known as war, which means still more ships. To get these ships we face the necessity of building them, which means the expansion of old shipyards and the creation of new ones. To get them quickly means the multiplication of these shipyards and related industries upon a new and greatly-augmented scale. If our national responsibility stopped here it would be sufficiently impressive, but it does not. It goes further. It obligates us to feed, to sup-

ply and equip to a certain extent, to furnish raw and manufactured material to not only our own troops but to those of our Allies and to the peoples and the industrial organizations behind our Allies. This obligation embraces not merely food and munitions and textiles and steel rails and tractors and locomotives and submarine engines and ambulances. It means a thousand and one incidental things from lumber and copper and brass and rubber up to structural steel and finished devices. War has become tremendously, almost unbelievably, scientific, systematic, stupendous, complex. Fifty years ago an army was compacted of cavalry, infantry, artillery and commissary. The army of today is an organization with ramifications surpassing those of the greatest of industrial enterprises. Back of the men in the actual business of fighting stands a second army of engineers, chemists, surgeons, aviators, builders, camofleurs, miners, wireless experts, electricians, wire-workers, telephone and telegraph constructors, gas engineers and specialists of every sort, kind and degree. To meet the demands of one army so organized would be a task in itself. To meet the demands of a group of armies so constituted is a task of the most gigantic magnitude. Such a task the United States faces today and must continue to face until the foe of Democracy is beaten into submission and the eyes of the world turn again to the calmer pursuits of peace.

TO meet this demand there have sprung up almost by magic thousands of new industrial enterprises. Thousands of similar enterprises will come into being as the war goes forward. There will ensue a period of industrial expansion without parallel in American history. Each of these new plants, each of these expansions involves the concentration at selected points of vast new units of labor. These units must be housed. We know what happened at Bridgeport. We know what is happening at Chester, at Eddystone, and elsewhere. We know what is happening right now here in Philadelphia. Shall we wait as England did until the conditions become so acute as to demand Federal action? Or shall we do the sane and logical thing and meet the demand by action *now* and keep pace with it as we go along. There is a demand today in Philadelphia alone for thousands of new homes—a selling demand no prudent investing concern can afford to ignore. The renting demand is absolutely without parallel. This condition is due to become more acute and insistent as new industries come into being to concentrate new armies of labor. Where is the investor who a few short years back was clamorous for a prudent outlet for idle funds? Could there be a better outlet than the renting and selling demand now facing us on all sides? What has happened to the operative builder? Five years ago we used to say that Philadelphia was over-built. Will

**DRAWING
MATERIALS**

CHARLES H. ROBBINS, JR.
125 S. 11th Street, Philadelphia
BELL PHONE, WALNUT 1086
KEYSTONE PHONE, MAIN 497

**BLUE
PRINTS**

anybody dare to say that the condition exists here today? We are not unmindful of the fact that building under existing conditions presents certain difficulties. Car shortages and freight congestion have a tendency to make deliveries of material a trifle precarious. Materials are higher than ever and labor, skilled and unskilled, is scarce and not easy to handle. But even these conditions are yielding to improved organization. It should not be forgotten that war on the scale we now know it is too new to us to be met at short notice with the maximum of national efficiency. England muddled for a year. We may be counted on to flounder in unexpected situations for a time. But as we push ahead system and order and method and the efficiency that is born of these will come to our assistance. If the great money-lending concerns are not incredibly commercialized they must perceive that the opportunity that is now theirs involves a moral and patriotic not less than an economic obligation. Workmen cannot be expected to develop their highest efficiency unless they are properly housed. This nation cannot win the titanic struggle in which it is immersed unless it is enabled to bring to the task the utmost measure of efficiency of which it is capable. The moral is Build, Build, now! Build for sale and build for rental. Get the operators busy in all sections. Failure to meet the demand now crowding upon us spells economic disaster in the months ahead. Let us ponder the blunder of England 'ere it is too late.

* * *

JOHAN IHLDER, Secretary of the Philadelphia Housing Association, sums up the conditions now facing Philadelphia in the following words:

In housing, the war has accentuated our problem, and especially along three lines. Along all of these lines the problem has been becoming more and more accentuated during the two or three years preceding the Spring of 1917. So we have had some opportunity to study it in its new phases: These are:

1. A rapidly increasing concentration of population in existing industrial centers.
2. The creation, almost over night, of new industrial communities.
3. A rapid increase in the cost of building and of public services.

To these must be added, in many places, particularly the smaller ones, a spectacular rise in land values.

The stories of Bridgeport and of Flint are familiar and are typical of what is now taking place in many other industrial centers. Even Philadelphia, for all its size, has begun to feel the pinch. Two years ago it was overbuilt. Today it has

few vacant houses for the wage-earner, and in some districts there is already overcrowding. Yet every day brings news of more factories and plants, of extensions to old ones. Meanwhile, the amount of new building construction is below normal. If present tendencies continue, and there is every evidence that they will unless energetic action is taken, Philadelphia must soon face conditions that will seriously threaten the health and strength of its wage-earning population."

* * *

IT will do more than seriously threaten the health and strength of our wage-earning population. It will, if persisted in, seriously arrest the city's industrial development. If big, new industries cannot come to Philadelphia with an assurance of proper housing accommodations for its labor, then these industries will go elsewhere. It is amazing that the investment capitalists of the city should be unable to perceive the logic underlying so simple a proposition in plain business economics.

* * *

THE *National Builder* has an article in its November issue showing in what manner England is facing the demand, now acute in the United Kingdom, for the housing of its working classes.

One of the most important questions in Great Britain for several years past has been that of housing the working classes says the article. This subject is now studied by a committee appointed by the Government, while the local government board has requested town and urban authorities throughout the country to report not later than a date in October, the housing requirements of the people in their towns and districts.

It is admitted by the board that 500,000 houses are now urgently wanted, but other authorities, including the Joint Committee on Labor Problems after the war, estimate that not less than 1,000,000 houses are necessary, costing \$1,216,625,000.

Government financial aid has been promised, although no stated amount has been named pending the report of the newly appointed committee. In the meantime a grant of \$97,330,000 has been asked for by some housing organizations.

The Government, in November, 1914, decided in favor of a free grant from the exchequer, as well as loans, to permit of local councils charging customary rents without incurring loss; and while that policy is still in force it has, so far, only affected certain munition areas.

It is recognized that bad housing has led to high infantile mortality, notably

in the northern industrial centers. In three Scottish districts there is urgent need of accommodation for 100,000 workers.

* * *

SINCE 1906 there has been a decrease in the building of houses for the working classes, due, it is stated, to previously overbuilding, which led to towns being burdened with empty buildings which, paying no rates, increased the taxable proportion payable by those that were occupied.

The new land valuation and taxes authorized under the finance act of 1909 proved an additional cause in the decline in building small houses, which for some years previously had formed the vast majority of all new houses erected by private builders, who were financed chiefly by money raised by mortgages on the property. The effect of the new act, however, was to close this source of obtaining capital, and the rate of building in about 40 big towns declined by over 20,000 annually.

* * *

THE committee's tasks will include the working out of the best scheme by which large numbers of skilled laborers in the building trade can be secured after the war ends; the provision of 120,000 cottages for workers on the land; the supply of adequate accommodation for workers in new industrial districts which will be opened up; the method of applying the policy of grants in aid; the consideration of evidence respecting particular areas where especially prompt measures are necessary; amendment of by-laws relating to construction; and types of buildings in urban and rural districts. It is hoped to avoid monotony in design, and in this regard it is reported that numerous designs and plans already exist of small houses combining the utmost utility with good appearance.

It is reported that Government approval will be granted at an early date to plans involving the erection of not less than 500,000 houses within the first two years after the conclusion of the war, and that, in order to prevent rents being higher than in pre-war times, financial assistance will be substantially provided.

There's one variety of advertiser who gets our Angora. This is the chap who can't afford a large space and doesn't advertise, as a regular thing, because a small space "isn't seen." Some of the biggest advertisers we have started out with small space. Ask them whether the small space is seen. If advertisers had to wait until their businesses developed to full page stature before advertising, there'd be mighty few advertisers. The big man becomes big by growth. And growth starts with the seed.

EDITORIAL NOTES

In connection with the British Government's study of the technical questions in bearing upon the building of the large number of houses for industrial workers after the war, the President of the Royal Institute of British Architects has, upon request from the authorities, nominated Sir Aston Webb to serve on behalf of the R. I. B. A. on the committee which has been set up by the Local Government Board. A committee of the R. I. B. A. has been constituted by the Council and is now considering the question from the architect's point of view. The committee consists of the President, the Honorary Secretary, Sir Aston Webb, Professor Abercrombie, Professor Adshead, W. R. Davidge, W. A. Harvey, Arthur Keen, H. V. Lanchester, D. B. Niven, G. Gilbert Scott, J. W. Simpson, H. D. Searles Wood, George Hubbard, and Percy B. Tabbs. The allied architectural societies have been asked to nominate representatives to serve on the committee, while the principle of local committees to deal with local problems and keep in touch with the central committee has been recommended for adoption.

The South American city of Buenos Ayres exempts from taxation each year the most beautiful building erected during the preceding twelve months, and in addition awards a medal to the architect.

Isaac S. Taylor, architect, who died October 28 in St. Louis, Mo., was the chief architect of the World's Fair, held in that city.

London advices say that between January 1 and August 15 this year the Germans imported into Belgium through Holland over 3,000,000 tons of sand and gravel. In the pre-war years the annual consumption of sand and gravel for road maintenance was 1,320,000 tons. In addition to the importations through Holland, the Belgian quarries, it is stated, are being worked to their maximum capacity, in excess of 5,000,000 tons, and large quantities are entering Belgium over the German roads.

Albert E. Davis, architect, in a card to the trade, celebrates a thirty-year period of practice in one locality in New York City—258 East 138th street. During that period the Bronx has grown from 70,000 to 700,000.

The Bethlehem Lime and Supply Company, of South Bethlehem, Pa., has opened an office and yard for the distribution of lime, cement, terra cotta pipe and general building supplies at the junction of Locust street and the P. & R. R. R., South Bethlehem.

John Bacon Hutchings & Sons, architects, of Louisville, Ky., have closed their office until further notice. E. T. Hutchings, of the firm, has received a captain's commission in the Engineering Officers' Reserve Corps, United States army.

The resumption of speculative construction is a welcome sign of better times in store for the allied building interests, says the New York "Real Estate Record." It is sincerely to be hoped that the work now started will prove itself to be the commencement of a structural endeavor that will not be permitted to cease until there is a sufficient supply of living accommodations to fill all current demands. New York City is to-day underbuilt along certain definite lines, and the principal one is the provision for housing the rapidly growing population. This applies with equal force to suburban districts, within reasonable commuting distance of this city, and its immense commercial interests, where a similar demand exists. It will require a large volume of new construction, involving the erection of many apartment houses and one and two family dwellings to supply the demand, and it will be a long time before the city is built up to its housing capacity.

The Niles-Bement-Pond Company bought about fifty acres at Kearny, N. J., fronting on Lincoln Highway and Hackensack River. The property lies midway between Newark and Jersey City, and is directly opposite the United States Steel Company's Federal Shipbuilding plant. More than a year has elapsed since negotiations were first started. The buying company will erect on the site a plant for the manufacture of cranes and dummy engines.

Greene-Wolf Co., Inc., Hudson Terminal Building, New York City, announces that it is organized to conduct a general business in iron and steel.

Several meetings have been held in Washington between the Government and large employers of labor in the Middle West and Pacific Coast. These conferences were instituted for the purpose of considering the waiving of certain portions of the law, so as to allow the importation of 2,000,000 Chinese coolies during the period of the war. It was thought that this might prove a solution of the labor problem.

At the regular monthly meeting of the New York Building Managers' Association, held at the Fifth Avenue Building, William W. Lighthipe, of the Otis Elevator Company, was the principal speaker.

The Dixon Crucible Company, in Jersey City, closed down one day last month, throwing 1,800 people out of employment, because of the strike of the employees of the coal company serving them.

Although the reports of the current week have indicated a slight falling off in the volume of new Government work placed under contract, the deficiency in a great measure has

been made up by the amount of private and semi-private building that has been put forth. The Government has its program of essential military construction well advanced, and while there will be a considerable volume of additional work brought out from time to time as the necessity arises, the bulk of the projected work is already under contract. The temporary construction, such as training camps, cantonments and similar projects, are practically completed and the work now in hand involves structures that will become permanent bases to provide for the greatly enlarged military establishment that this Government will in future support.

The material markets have been quiet during the week, but as a rule the situation is more hopeful than it has been. Certain lines have already commenced to feel the effect of greater structural activity through increased orders. Prices are generally firm and likely to hold for the balance of the winter at least.

The Eastern Association of Glass Distributors held a meeting at the Hotel Astor, which was largely attended by plate, window and wire glass dealers. Manufacturers and jobbers expressed the greatest concern regarding the possible Government decision in classifying flat glass of all kinds among non-essentials, thereby curtailing to an unknown degree the usual production. Window glass factories had arranged to start annual operations on December 8, but in view of the uncertain conditions such start may be indefinitely postponed. A joint meeting of the Eastern and Western divisions of the Association of Glass Distributors with the manufacturers will be held in Pittsburgh on December 11 and 12, at which time it is expected important measures will be taken for consideration. In view of the serious situation an advance in price is expected.

Walter E. Spear, department engineer in the Board of Water Supply, was recently commissioned a major in the Engineer Officers' Reserve Corps, and has been stationed at Camp Upton, Yaphank, L. I.

H. F. Bardwell has been appointed New York district manager for the Vanadium-Alloys Steel Company, of Pittsburgh and Latrobe, Pa., with offices at 30 Church street, New York City.

One of the significant features of the existing business and industrial condition in practically all sections of the country is the absolute need for additional housing facilities, particularly in the great manufacturing centers. Industrial expansion, brought about by the war, has drawn thousands of families to the producing centers. These must be adequately housed in substantial structures or the efficiency of the workers, both physical and moral, will be impaired. The provision for housing these families has become a problem of paramount importance to the communities as well as to the employers and steps are being taken to co-operate in an effort to re-

lieve the situation of many of its unpleasant phases. The solution will mean the erection of a great number of dwellings in many cities and the work will involve the expenditure of millions of dollars for labor and materials, all of which will assist in making certain the predicted building movement.

* * *

Evidence continues to multiply that a marked revival of building construction is close at hand after a long period of doubt and anxiety for the industry. During the past two or three weeks the signs of a greatly increased activity have been significant of a substantial movement and the reports of the current week confirm the recent predictions, since they have crystallized into a number of tangible structural operations. Practically all lines of building endeavor have experienced the force of the resumption of activity as evidenced by the diversified types of projects that have been introduced since the movement commenced. Furthermore, the condition is not localiz-

ed, but extends its scope of influence over a wide territory.

* * *

The American Society of Mechanical Engineers will hold its annual meeting at the Engineering Societies Building, December 4-7, 1917.

* * *

Captain Aymar Embury, 2d, has been assigned to the department of camouflage of the Engineer Corps.

* * *

Major Evarts Tracy, of the architectural firm of Tracy & Swartwout, was recently appointed by the War Department to take charge of the department of camouflage, and has reported to Washington for further orders.

* * *

Dr. David B. Steinman, formerly assistant engineer in the construction of the Hell Gate Bridge and subway construction in New York City, has been appointed associate professor of civil and mechanical engineering in the day session of the College of the City of New York.

CONSERVATION AND THE COAL BIN

The contents of the coal bin and the rate at which it empties is always a matter of concern to the householder. This year its value approximates that of his other jewels, if he is so fortunate as to possess them.

Every one knows that it is much easier to burn coal than to get the full amount of heat from it; that there is no definite relation between the coal that is burned and the heat which reaches the rooms to make them warm and comfortable; that much coal is simply burned,—wasted. With the threatened scarcity of coal the leaks must be stopped this year.

After the first cold spell and before the severe winter really begins is the "last chance" for finding and stopping the leaks economically.

In cheaply built houses where thoroughly good building paper or insulating quilt have not been plentifully used, draughty cracks will be found which are the cause of much wasted heat. Sometimes a projecting bay or sideboard seems almost like an open door when the wind is in certain directions. In one such instance an examination on the outside showed there was no reason why the wind should not come in. A layer of building quilt carefully placed under the projecting bay and sheathed underneath quickly made a different temperature in the room.

A single thickness of glass at the windows is always a source of heat loss. As it may be helpful to others, we give one home builder's experience, who says:

"We have estimated that every storm window on the north and west side of our house has saved us a quarter of a ton of coal a winter. In one season we paid the cost of the windows in the saving of fuel, for they

average only from \$3 to \$5, according to the size.

"Then there are inside problems. Owing to settling and shrinkage of the wood, the baseboard and floor are often separated by a quarter of an inch of open space. That leak coming in near the floor chills the whole atmosphere. The remedy, as we found, is simple. Boil up a lot of old newspapers into a soft, pasty mass, add a little glue when nearly ready for use to give it consistency, and then a little coloring matter to imitate the wood trim. Your painter can tell you what you need to secure a certain shade to imitate oak, chestnut or pine.

"Stuff this pulpy mass in between the floor and baseboard, and between the wall and baseboard until every chink and crevice is filled. If it is the color of the wood trim, it will never be noticeable.

"The leaks will be stopped up so effectually that you will find your floors much warmer. Nearly all floors are double, and with a layer of building paper between, the leak of cold air rarely comes up through them. The air enters from the corners and sides around the baseboard and windows.

"The windows can be treated in the same way with this paper pulp. If necessary to get at it, take a sharp knife and loosen the wall paper where it meets the casing, and stuff the filler in between the wall and wood frame of the windows. Then, when it has dried, replace the wall paper and paste down neatly. The difference will be so marked that you will immediately find comfort in rooms that were before hardly livable."

Furnace Efficiency.

It is estimated that one-quarter of the coal used to heat our houses is wasted. Even the

busy man can afford, this year, to study his heating problem for himself and know how his furnace should be fired and what is the kind of coal which is adapted to give the best results in his special conditions. The money which is dropped on the street is not wasted, somebody finds and uses it; but the coal which is burned without giving its return is an absolute waste.

Each individual heating plant and each chimney makes its own set of conditions, so there are no universal rules to be laid down. A little understanding of first principles, and a large application of common sense are the first requirements, in the management of a heating problem. It is not easy to find outside help. Call up the evening schools and the Y. M. C. A. and they are likely to tell you that they have no classes in the study of combustion as applied to house-heating, nor in the stoking or firing of furnaces; that they have found no demand for such classes. You will perhaps get most help from your local coal dealer, for he will give you the benefit of his large experience, and will apply it to your particular problems.

"Burn all the coal you buy,—and use all of the heat from the coal you burn." That is the whole proposition. To get at it systematically the coal, before it is burned, and the coke and ash that is left, may each be weighed separately, the efficiency determined and applied to your problem, if the scientific advice necessary is obtainable.

Much fuel waste is due to improper use of fire tools. The slice bar,—in common parlance, "the poker,"—is abused almost every time it is used, according to Joseph W. Hays, combustion engineer, who says: "The purpose of the slice bar is to cut or slice the fuel away from the grates and to cause the fine ash to fall through the grates. Under no circumstances dig up the fuel with it. Under no circumstances use it unless the condition of the fire calls for it. The good fireman can tell from the dark spots in the ash pit when and where the fire needs slicing."

Much of the heat generated is lost through radiation unless the furnace and pipes are jacketed so as to thoroughly insulate them. "One or two inches of asbestos plaster covered with canvas, and the canvas covered with paint, makes a serviceable overcoat for a boiler setting." Let the householder use the same degree of common sense with his heating proposition that he does in his business.

SOME MORE ADVERTISING "DON'T'S."

Don't try to do a million dollar business on a two thousand dollar basis.

Don't try to advertise a quarter page proposition in a three-inch space.

Don't belittle a big business reputation by running a piking little "ad" among piker competitors.

Don't overlook the fact that as a man is judged by his stationery, so a firm is judged by its advertising.

MAKERS OF TILE SUBMIT PROTEST

Manufacturers in Convention Insist Their Product is Essential to Building

Decision to make representations to the Government in order to forestall the placing of tile upon the list of "non-essentials" which is now being prepared by the Council of National Defense, was taken by the annual convention of the Eastern District of the Tile, Mantel and Grate Association which was held at the Schlitz Hotel, Atlantic City, N. J.

The discussion was led by R. A. Fowler, of Philadelphia, a member of the directorate of the association. He maintained that tile has become a necessity for the promotion of sanitation. This fact has been recognized by the Government, he said, in its specifications for the new army cantonments. The convention registered its protest against any backward move from the advance that has been made recently along sanitary lines.

There were about fifty members present. They evinced their patriotism by the adoption of a resolution to uphold the President.

It was offered by James J. O'Keefe, a member of the Board of Directors, and was as follows:

"Whereas, For reasons beyond the control of any one individual, but through surrounding influences of the great world war we have been drawn into the conflict for the purpose of bringing to a close the struggle and forever after making the world safe for democracy; and

"Whereas, The situation has placed upon our worthy President, Woodrow Wilson, a heavy responsibility, which demands the full support of every loyal citizen; therefore be it

"Resolved, That we assembled in convention pledge our full and undivided support and influence to hold up the hands of our President in his endeavors to lead us on to victory."

The question of the amalgamation of the unionized tile setters with the International Bricklayers and Plasterers, which has been advocated by the heads of the American Federation of Labor for the purpose of centralization of effort was also discussed and urged as expedient by Mr. Fowler. While no definite action was taken the association inclined to a favorable view of the matter, as was indicated by the general discussion.

Trade conditions were discussed by President A. W. Walker, of the Tile Manufacturers' Association, with headquarters at Beaver Falls, his remarks being directed particularly to the matter of credits. President Robert Beck, of the Interstate Mantel and Tile Dealers' Association, with headquarters at Chicago, and First Vice-President J. W. Lantry, of New York, were also present.

The officers of the association were re-elected as follows: President, A. H. Siemon, of Baltimore, for his sixth year; vice-president, M. I. Ryan, of Philadelphia, for his second year, and secretary-treasurer, E. E. Elliott, of Washington, for his fifth year. The following members of the Board of Directors were re-elected: James J. O'Keefe, of Atlantic City; H. N. Francis, Richmond, Va.; C. W. McCauley, Wilmington, Del.; J. A. Marrian, Jr., Baltimore, and R. A. Fowler, of Philadelphia. In addition the following were chosen to increase the membership of the directorate: A. P. Bell, of Philadelphia, and G. Bonney, of Norfolk, Va.

The association held its annual banquet with President Siemon as toastmaster. Wives of the members, about 15 in number, were present. The association voted unanimously to return to Atlantic City next year.

SELECTION OF TRADE-MARKED OR DEFINITE BUILDING MATERIALS

The disappointment of clients, consequent loss of the architect's prestige, and a multitude of minor evils, result too frequently from the "or equal" clause, still used to some extent in building specifications. When after thorough investigation an architect is convinced that a certain article or material is exactly suited to the needs of his clients it would seem that he should say so without hesitation or further discussion. To specify what is right, "or equal," in the first place discredits the architect's judgment and experience and is a tacit admission that he may have committed at least a technical error in specifying a particular article. From the time this iniquitous clause is made public until construction of the building is practi-

cally complete the architect must, to keep within the spirit of the specifications, listen with whatever patience he can command to the rival claims of each manufacturer whose goods are possible components of the future building. And then he must use his own judgment as to a possible substitute just as he presumably did when first drawing up the specifications. After such reflection, the old excuse that the "or equal" clause is inserted to give others a "chance" and to prevent charges of favoritism loses its potency. Such accusations are as old as tradition, and now, as then, should have no weight where motives are just and sincere. When a reputable doctor prescribes a given drug under given conditions no one thinks of charging him with

partiality toward its manufacturer, and similarly an architect should be able to specify a definite article without having his motives impugned, or, if they are, he should be able to rise above such malicious insinuations.

But when a certain article or material has been selected, how is the architect or his inspector at the building, to know that no substitution has been made by an unscrupulous contractor or dealer? In these days of clever imitation even the most experienced superintendent may be readily deceived by mere casual inspection, and exhaustive tests of each item at the building are impracticable. The only satisfactory answer to the dilemma seems to be the exclusive use of trade-marked materials, or materials which are clearly marked as to quality or grade by the manufacturers. An article that is not good enough to be trade-marked, or bear evidence of grade backed by the maker, is not good enough to specify. Aggressive manufacturers in nearly all lines of trade have found some method of distinguishing their products and thus have accomplished what might be termed four-fold protection. By preventing substitution of another article for that of their own manufacture, they assure to themselves the full benefit of their extensive advertising, they assure to the consumer the satisfaction for which he is paying, they assure to the architect certainty and ease of identification, and they assure to the contractor and dealer freedom from possible charges of dishonesty.

We believe that the time is coming when all manufactured articles entering into high class construction will be readily identified by a trade or other distinguishing mark, and the use of all others generally avoided. Even now the adoption of a rule to use only materials falling under the above classification would not seriously restrict an architect in his selections.—"American Architect."

THE VALUE OF A NEW BUILDING TO A BANK.

Increase in Deposits is Directly Traceable to Modern Quarters, which are also an attractive Advertisement.

The value of new banking quarters was recently made the object of a nation-wide investigation. A questionnaire, touching on the following points, was sent to a list of financial institutions which had of late either erected new structures or materially improved their old banking quarters:

1. What, if any, is the advertising value of a new building or improved quarters?

2. Other things being equal, do you believe that the bank with the new building is the one most favored by depositors?

3. Have deposits increased or decreased since the occupancy of the new quarters?

4. Would you attribute all or any part of this increase, if any, to the attraction of the new quarters?

With but little variation, and only slight reservation, or exception, all of the banks

(Continued on Page 796)

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Chestnut Hill, Philadelphia. Architects, Drukenmiller & Williams, 1533 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 45x52 feet, slate roof, vapor heating, hardwood floors, electric lighting, tile work. Plans in progress. Architects will take bids in one week.

Residence (alt. and add.) and Garages (4), Thirty-sixth and Powelton avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick and stone, 3 stories addition, 13 x15 feet, slag roof, hot water heating, combination lighting, tile and marble work, parquetry and cement floors, stone foundations, iron stairs; garages, 12x20 feet, brick, 1 story. Architect has received bids.

Store Building (int. alts.), 258 N. Broad st., Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Philadelphia Stock Exchange Building, Philadelphia. Consists of interior alterations, mill work, store fixtures. Plans in progress. Architect will take bids in about one week.

Reservoir, Navy Yard, League Island, Philadelphia. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and steel, 2,000,000 gallons capacity. Low bidders: C. E. Weed, P. O. Box 7, Albany, New York, \$45,350; time, 100 days; Warren-Moore & Co., Colonial Trust Building, Philadelphia, \$46,921; time, 120 days.

Garage, 942 Porter street, Philadelphia, \$10,000. Architect, private plans. Owner, A. Kaplan, 4800 Parkside avenue, Philadelphia. Brick, 1 story, 60x160 feet, slag roof, cement floors, steam heating, electric lighting (gasoline storage system reserved). Owner will sub-let all contracts.

Manufacturing Building (alts. and ext.), Twentieth and Indiana avenues. Architects, Stearns, Woodnut & Schmol, Stephen Girard Building, Philadelphia. Owners, M. L. Bayard & Co., Pennsylvania Building, Philadelphia. Brick, concrete and steel. Plans in progress. Too early for details.

Residences (4), Tulpehocken and Baynton streets, \$12,000. Architect, private plans. Owner, Chas. H. Eekman, 2126 North Sixteenth street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hot water heating, combination lighting, hardwood floors. Owner is sub-letting.

Time Office and Dispensary Building, Tacony, Phila. Architect, Thos. B. Lippincott,

1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corp., Tacony, Phila. Stone foundations, brick, 1½ stories, 73x32 feet, slag roof, steam heating, electric lighting, tile work, cement and wood floors. Architect taking bids, due as soon as possible. Barelay White & Co., 1713 Sansom street, and F. W. Mark Const. Co., Finance Building, are figuring.

Laboratory, Tacony, Philadelphia. Architect, Thos. B. Lippincott, 1505 Arch street, Philadelphia. Owners, Tacony Ordnance Corporation, Tacony, Philadelphia. Stone foundations, brick, 2 stories and basement, 25x32 feet, slag roof, steam heating, electric lighting, cement and wood floors. Architect taking bids, due as soon as possible. Barelay White & Co., 1713 Sansom street, and F. W. Mark Const. Co., Finance Building, are figuring.

Building, 106 Chestnut street, Philadelphia. Architect, Alfred Lewis Ward, Stephen Girard

Building, Philadelphia. Owners, C. M. Plowman & Co., 242 Chestnut street, Philadelphia. Consists of interior alterations to second floor, mill work, partitions, steam heating, hardwood floors, painting. Architect will sub-let all contracts.

Elevated Stations (4), Frankford Elevated, Philadelphia. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick, reinforced concrete, stone and terra cotta, 2 stories, tile and slag roof, cement floors, hollow tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal sash and doors, fire doors, iron stairs, cement floors, hollow tile, safety treads, roof ventilators, metal ceilings, wire work, ornamental iron work (electric work and plumbing separate bids). Plans completed. Owners will take bids in about one week.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Greenhouses (2), Potting Room and Service Building, Sunset and Germantown avenues, Philadelphia, \$15,000. Architect, private plans. Owner, Geo. C. Thomas, Jr., Norwood avenue, Chestnut Hill, Philadelphia. Brick, steel and glass, 1 story, 25x66 feet, 25x85 feet, 11x17 feet, and 26x20 feet, shingle roof, pine floors, electric lighting, metal lath. Contract awarded to King Const. Co., North Towanda, N. Y.

Store and Dwelling (alts. and add.), south east corner Sixth and Wilder streets, Philadelphia. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owners, Brotherhood of Carpenters, 1134 South Fifth street, Philadelphia. Brick, 3 stories, 17x60 feet, consists of general alterations for club house, slag roof, hot water heating, electric lighting, marble work, fire escapes, maple floors, hollow tile, office partitions. Contract awarded to Wm. Ariss, 352 Gladstone street, Philadelphia.

Garage, Clinton street and Montgomery avenue, Philadelphia, \$2,500. Architect, private plans. Owners, Wm. M. Lloyd Co., Twentyninth and Ridge avenue, Philadelphia.

Brick, 1 story, 25x80 feet, slag roof, cement floors, steam heating, electric lighting. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Garage, Eleventh and Loudon streets, Philadelphia, \$2,500. Architect, private plans. Owner, J. Fielding, 4800 North Tenth street, Philadelphia. Brick, 1 story, 88x15 feet, slag roof, cement floors, electric lighting, stone foundations (heating and gasoline storage system reserved). Contract awarded to G. J. Reich, 1124 Loudon street, Philadelphia.

Garage, 1839 Wynemwood road, Philadelphia, \$1,500. Architect, private plans. Owner, Frederick E. Aaron, on premises. Stone and brick, 1 story, 16x16 feet, slate roof, cement floors, electric lighting (heating and gasoline storage system reserved). Contract awarded to Stacy Reeves & Sons, 2011 Market street, Philadelphia.

Shop, 1609-11 North Front street, Philadelphia, \$2,000. Architect, private plans. Owners, Meyer Brooks (National Galvanizing Co.), 6019 Market street. Brick, 1 story, 31x34 feet, slag roof, electric lighting, stone found-

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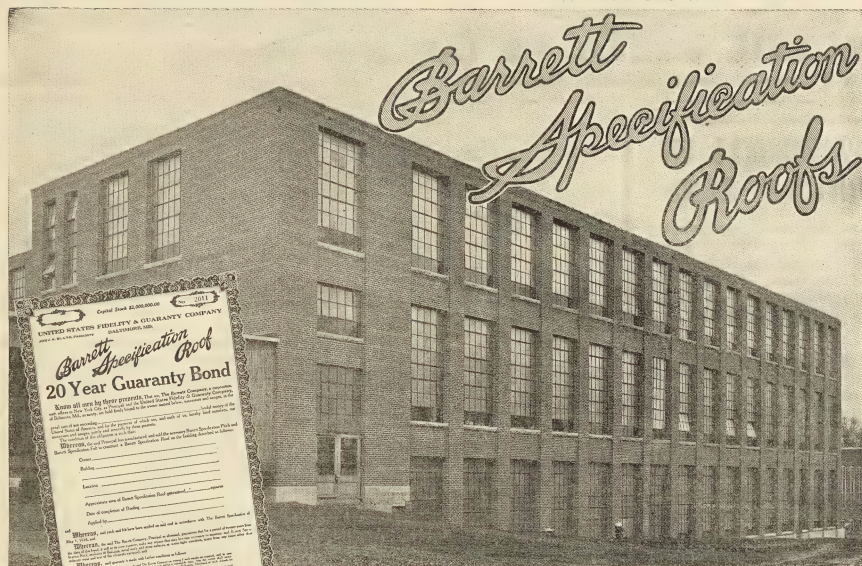
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tions. Contract awarded to J. D. Fisher, 5424 Thompson street.

Garage and Loading Platform, Seventeenth and Cambria streets, Philadelphia. Architect, Conrad P. Neff, Otis Building, Philadelphia. Owners, Electric Service Supplies Co., Seventeenth and Cambria streets. Brick; 1 story, 31x27 feet, slag roof. Loading platform, 80x9 feet, cement floors, electric lighting. Contract awarded to John N. Gill & Co., Otis Building, Philadelphia.

Power and Storage House, Tacony, Philadelphia, \$12,000. Architect, private plans. Owners, Tacony Ordnance Corp., Tacony, Pa. Brick, stone, frame and steel, 1 story, 45x50 feet and 30x50 feet, slag roof, cement floors, rolled steel sash and skylights. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Factory (fire repairs), Huntingdon street and Aramingo avenue, Philadelphia. Architect, private plans. Owners, H. A. Hittner Sons Co., on premises. Consists of restoring building to former condition. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Garage and Office, Delaware avenue and Shaekamaxon street, \$18,000. Architect, private plans. Owners, Pennsylvania Sugar Co., 1037-39 North Delaware avenue. Reinforced

concrete and brick, 2 stories, 36x105 feet, slag roof, cement and pine floors, metal lath, rolled steel sash, rolled steel skylights, fire doors, waterproofing, ornamental iron work. Contract awarded to O'Meara Const. Co., 253 South Quince street, Philadelphia.

Office Building (add.), 222-24 Walnut street, Philadelphia. Architect, Charles Barton Keen, 1218 Chestnut street, Philadelphia. Owners, Charles E. Mather & Co., 226 Walnut street, Philadelphia. Reinforced concrete, brick and stone, second story addition, 35x50 feet, J-M roof, hollow tile, metal lath and window guards. Contract awarded to A. R. Raff Const. Co., 1635 Thompson street, Philadelphia.

Small Arms Proof House, Target House and Range and Fuse Shop, Frankford Arsenal and Holmesburg, Pa., \$96,736. Architect, private plans. Owners, U. S. Government, care of Col. Geo. Montgomery, Frankford Arsenal. Reinforced concrete, steel, brick and stone, 1 story, 122x44 feet; 1 story, 14x20 feet; range, 949 yards; fuse shop, 3 stories, 61x22 feet, slag, Ready and slate roofs, vacuum heating, electric lighting, tile work, maple floors, hollow metal sash, rolled steel sash, hollow metal skylights, fire and kalmecin doors, cement, oak and maple floors, metal lath, roof ventilators, stone foundations. Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street, Philadelphia.

PENNSYLVANIA Construction News

Engine House (extension), Bridgeport, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Brick and concrete, 1 story, 90x112 feet, slag roof, concrete floors, rolled steel sash, roof ventilators, wire work, ornamental iron work. Owners have received bids.

Residences (3), Chester and Darby Turnpike, Norwood, Pa. Architect, Oliver R. Parry, 1631 Chestnut street, Philadelphia. Owner, Jos. Facocce, 803 Edgemont street, Chester, Pa. Frame and plaster, 2½ stories, 50x36 feet, shingle roof, steam heating, electric lighting, pine floors, hollow tile, metal lath, stone foundations. Architect has received bids.

Arch Bridge (repairs), south of Mingo, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading RR. Co., Reading Terminal, Philadelphia. Concrete, steel and timber, 115 feet. Owners taking bids, due December 11th. A. L. Carhart, Hale Building, is figuring.

Residences (4), Bala, Pa. Architect, private plans. Owners, P. J. Lawler, Bala, Pa. Stone, 2½ stories, slate roof, hot water heating, electric lighting, tile work, hardwood

floors. Plans in progress. Owner will take sub-bids.

Post Office, Sunbury, Pa. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owner, U. S. Government, Treasury Department, Washington, D. C. Owners will take bids, due January 28th, at 3 P. M. Plans and specifications may be obtained from office of the architect or custodian of site at Sunbury, Pa.

Apartment House, Cricket and Athens avenue, Ardmore, Pa. Architect, John C. Norton, Ardmore, Pa. Owner, Wm. A. McCrea, Ardmore, Pa. Brick, 3 stories (15 apartments), 77x94 feet, slag roof, vapor heating, electric lighting, hardwood floors. Owner is taking sub-bids.

Junior High School, Nineteenth and Chestnut streets, Harrisburg, Pa. Architect, C. Howard Lloyd, Telegraph Building, Harrisburg, Pa. Owners, School Board of Harrisburg, D. D. Hammelbaugh, secretary, Harrisburg, Pa. Brick, 3 stories, 170x190 feet, composition roof, steam heating, electric lighting, tile work, hollow tile, metal lath, hollow metal skylights, fire doors (plumbing, heating, ventilators, electric wiring, separate bids). Low bidders: Augustus Wildman, Harrisburg, Pa.,

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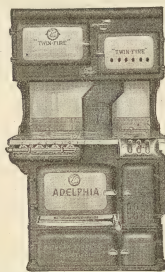
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\$272,900; Columbus Heating and Ventilating Co., Harrisburg, Pa., \$35,000; J. C. Hawley, Harrisburg, Pa. (plumbing), \$25,000.

Residence (alt. and add.), Farmer's House and Pneumatic Water System, Trooper, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, A. J. Gioja, care of architects. Brick and stucco. Residence, 2½ stories, 18x20 feet addition; farmer's house, 1 story, 21x21 feet, slate roof, steam heating, electric lighting, tile and marble work, pine floors. Plans in progress.

Naval Magazine, Fort Mifflin, Pa. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Asbestos protected metal, 1 story, 25x43 feet and 40x160 feet, composition and slag roof, concrete floors, steam heating, electric lighting, rolled steel sash, waterproofing. Owners taking bids, due December 10th. W. W. Astine & Co., 1218 Filbert street, and Mon-



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ghan & Losse, 3016 Chestnut street, Philadelphia, are figuring.

Bungalow, Eagle Road, near West Chester Pike, Drexel Hill, Pa. Architect, Andrew Charles Borzner, 717 Walnut street, Philadelphia. Owner, Mrs. Gertrude Leedom, Eagle Road, south of West Chester Pike, Marrona, Delaware County, Pa. Stone, 1½ stories, 38x62 feet, slate roof, hot water heating, electric lighting, tile and marble work, plumbing, hardwood floors. Architect taking bids, due December 11th at noon. F. B. Davis, 240 S. Sixteenth street, is figuring, in addition to those previously reported.

STARTING OBSTINATE SCREWS.

Many methods have been given from time to time as to the best way to "start" screws, and, of them all, the writer has come to the conclusion that the use of a good solid punch with a flat head of the same size as the screw's, and a good heavy hammer, is the best means to adopt, says a contributor to "Everyday Mechanics." Suppose, for instance, we have to take an ordinary house door off its hinges so as to get at its bottom edge to "ease" it (i. e., plane off a bit), in order that it can clear the carpet or door mat, and thus swing easily. Take the punch in one hand, and place it fair and square against the head of the screw, and then give it a good blow with the hammer. This is more easily said than done, if one is not at home with a hammer; for there is an instinctive fear of one's own fingers suffering! Therefore, in such circumstances, instead of an ordinary punch, procure, say an old ¼-inch bolt, and place it so that while you hold its threaded end, the head of the bolt rests upon the screw's head. Then your fingers being well out of the way, a good blow may safely be delivered, and most probably will be, simply because knowing that no harm will occur to your fingers, there will be no hesitation in striking, and a true blow will result. The shock of such a blow has the effect of bending down the rust joint which is causing the screw to adhere so firmly to the wood. Once this joint is broken, or "started," as the mechanic would say, the rest becomes comparatively easy. It must be remembered, however, that a heavy hammer is necessary

PENNSYLVANIA

Contracts Awarded

Building No. 62 (add.), and New Steel Building, Fort Mifflin, Pa., \$14,489. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, P. R. Harris, Chief, Navy Department, Washington, D. C. Steel, 1 story, 150x50 feet, and 1 story, 80x20 feet, steel roof, cement floors, metal lath, roof ventilators, rolled steel sash, fire and hollow metal doors. Contract awarded to George & Bost, 277 South Eleventh street. (58 days.)

Residence (alt. and add.), Paoli, Pa. Architects, Evans & Warner, Witherspoon Building, Philadelphia. Owner, John O. Platt, Paoli, Pa. Brick and stone, 3 stories, shingle roof, tin and canvas roof, cement, brick and pine floors, metal lath, tile work, stone foundations (heating, plumbing and lighting reserved). Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Grading and Masonry, north of Telford, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading

R.R. Co., Philadelphia. Grading north of Telford, Pa., 1¼ miles long, stone work. Contract awarded to O'Rourke & Gorsuch, Baltimore, Md.

Bakery, Chestnut street, Coatesville, Pa. Architect, Zenis Slawter, Coatesville, Pa. Owner, Louis Jaffe, Coatesville, Pa. Stone and brick, 2 stories, 25x70 feet, slag roof, pine and concrete floors, electric lighting. Contract awarded to Joseph Eleessor, Coatesville, Pa.

Residence and Garage (remodeling), Stable and Garage and alterations to Gate Lodge, Merion, Pa., \$76,000. Architects, Druckenmiller & Williams, 1537 Chestnut street, Philadelphia. Owner, Charles P. Vaughn, 5911 Overbrook avenue, Philadelphia. Brick and stucco, 2½ stories, 57x56 feet, wing 48x27 feet, tile roof; 2 stories and 2 stories and basement, 25x34 feet, tile and slag roof, vapor and hot water heating, electric lighting, tile work, cement and pine floors, metal lath. Contract awarded to Alfred James, Bala, Pa.

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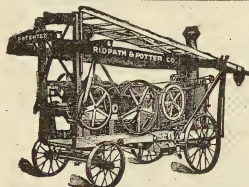
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NEW JERSEY

Construction News

School, Waterford Township, Camden County, N. J. Architect, Arnold H. Moses, 136 S. Fourth street, Philadelphia. Owners, School Board of Waterford Township, Camden County, N. J. Brick, 1 story, 24x36 feet, shingle roof, pine floors. Owners taking new bids, due December 12th. Fred Lange, Audubon, N. J., and the Peterson Const. Co., Clayton, N. J., are figuring.

Galvanizing Plant, Camden, N. J. Architect, private plans. Owners, New York Ship-building Co., care of L. G. Buckwalter, P. A., Camden, N. J. Wire lath and stucco, 1 story, 128x50 feet. Owners taking bids, due as soon as possible. Mockett Const. Co., Sixth and Market streets, Camden, N. J.; Frank E. Turner Co., 828 Broadway, Camden, N. J.; Fraser Brace & Co., 1328 Broadway, New York City, and J. S. Rogers Co., Moorestown, N. J., are figuring.

Factory (add.), Delaware avenue and Cooper street, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, Esterbrook Pen Co., on premises. Reinforced concrete and steel, fourth story addition, 15x18 feet, Metrop roof, wood floors, rolled steel sash, painting and glazing. Architects taking bids, due Dec. 6 at noon. Irwin & Leighton, 126 North Twelfth

street; Warren-Moore Co., Colonial Trust Building, and Robert E. Lamb Co., 843 North Nineteenth street, are figuring.

Incinerator, Cape May, N. J., \$3,987. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Frame and stucco, slate roof, electric lighting, metal lath. Contract awarded to Marse-Boulger Destructor Co., 39 Courtlandt street, New York City, time, 30 days.

Hotel Castor (add.), 140 South Tennessee avenue, Atlantic City, N. J. Architect, Seward G. Dobbins, 18 South Virginia avenue, Atlantic City, N. J. Owner, J. J. Joice, 140 South Tennessee avenue, Atlantic City, N. J. Brick, 2 story addition, 16x30 feet, slag roof, pine floors, hot water heating, electric lighting. Plans in progress. Owner will take bids in a week.

Aldine Hotel (alt. and add.), 1905 Pacific avenue, Atlantic City, N. J., \$15,000. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Josiah H. White & Son Co., Marlborough-Blenheim, Atlantic City, N. J. Brick, consists of concrete and cement work, iron and steel, fire escapes, slag roof (heating and lighting fixtures reserved). Contract awarded to P. G. Hannum, Atlantic City, N. J.

MARYLAND

Construction News

Dwellings, Dundalk, Md. Architect, Edw. L. Palmer, 519 North Charles street, Baltimore, Md. Owners, Dundalk Co., 330 North Charles

street, Baltimore, Md. Concrete foundations, hollow tile and stucco, 2½ stories, slate or composition roof, combination lighting, damp-

proofing, plastering, painting, plumbing, concrete floors (heating reserved). Owners are ready for sub-bids.

Gate House, Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Co., on premises. Concrete foundations, brick and frame, slag roof (heating and lighting reserved). Owners taking bids. Singer-Pentz Co., Equitable Building; West Const. Co., American Building; Bennett Building Co., 123 S. Howard street; Consolidated Eng. Co., Calvert Building, and Cowan Building Co., 106 W. Madison street, all of Baltimore, Md., are figuring.

Store (alts. and add.), 742 North Gay street, Baltimore, Md. Architect, private plans. Owner, Eli Goldenberg, on premises. Brick, 3 stories, plumbing, painting, steel and iron work (heating and lighting reserved). Owner will take bids.

Factory Building (add.), 218 St. Paul st., Baltimore, Md., \$2,000. Architect, Frederick Beall, 306 St. Paul street, Baltimore, Md. Owners, J. Chas. Linthicum & Bros., on premises. Brick, 1 story, 16x40 feet, tin roof, electric lighting, hot water heating, plumbing, painting, plastering. Owners will build.

Maryland

Contracts Awarded

Store (alts.), 316-18 West Lexington street, Baltimore, Md. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Agent, Julius Murtz, Equitable Building, Baltimore, Md. Consists of interior alterations, marble and tile work, new front. Contract awarded to Christian Richter, Overlea, Md.

Garage, Chauncey avenue, near Linden avenue, Baltimore, Md. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owner, Moses Solmsen, Bayard and Nanticoke streets, Baltimore, Md. Brick, 1 story, 45x104 feet, slag roof, electric lighting. Contract awarded to Singer-Pentz Co., Equitable Building, Baltimore, Md.

Store (alts.), 1806 North Charles street, Baltimore, Md., \$5,000. Architect, private plans. Owners, Huyler Candy Co., 18-20 East Baltimore street, Baltimore, Md. Consists of steam heating, electric lighting, tile work, metal bulks, painting, plumbing. Contract awarded to John J. Moylan, 538 North Calvert street, Baltimore, Md.

Store (alts.), 403 West Mulberry street, Baltimore, Md., \$2,500. Architect, John C. Spedden, 2715 Harlem avenue, Baltimore, Md. Owner, R. J. Noonan, on premises. Brick, 2 stories, 16x33 feet, slag roof, steam heating. Contract awarded to John J. Moylan, 538 N. Calvert street, Baltimore, Md.

Storage Building (add.), 13-19 West North avenue, Baltimore, Md. Architect, Frederick Beall, 306 St. Paul street, Baltimore, Md. Owners, Security Storage Trust Co., on premises. Brick, 6 stories, 25x65 feet, slag roof, reinforced concrete, concrete floors, electric lighting, metal doors. Contract awarded to W. T. Childs, 16 West Twentieth street, Baltimore, Md.

Plate Shop, southeast corner of Parkin and Pratt streets, Baltimore, Md. Architects, Parker, Thomas & Rice, Baltimore, Md. Owners, Bartlett-Hayward Co., Baltimore, Md. Reinforced concrete and brick, 1 story, 300x50 feet, slag roof, cement floor. Contract awarded to Morrow Bros., Fidelity Building, Baltimore, Md., who are taking sub-bids.

Warehouse (remodeling), West Hollins st.,

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Baltimore, Md. Architect, J. F. Nelker, Professional Building, Baltimore, Md. Owners, Fred Lipps Co., on premises. Brick, 4 stories, 72x93 feet, electric lighting, iron work, painting, hardware. Contract awarded to E. G. Turner, 15 East Fayette street, Baltimore, Md. Store room (add.), 970 North Howard street, Baltimore, Md. Architect, private plans. Owners, Cottman Supply Co., on premises. Brick, 1 story, 48x27 feet, slag roof, concrete work,



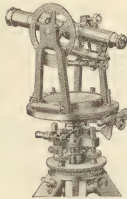
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plate glass. Contract awarded to Consolidated Eng. Co., Calvert Building, Baltimore, Md.

Miscellaneous Construction News

Warhead Storage Building, Newport, R. I. Architects, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and steel, 1 story, 79x37 feet, asbestos shingle roof, rolled steel sash, hollow metal doors, roof ventilators. Low bidders: Darling-Slade Const. Co., Newport, R. I., \$13,458; 75 days; Chas. B. McGuire Co., Providence, R. I., \$16,946; 90 days.

Optical Shop, Building No. 105, Navy Yard, Washington, D. C. Architect, private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, steel and reinforced concrete, 5 stories, 60x34 feet, and fifth story addition to present building, 64x52 feet, slag roof, concrete and maple floors, heating extension, electric lighting, hollow metal sash and doors, hollow metal lath, roof ventilators, iron stairs, ornamental iron work, wire work. Warren-Moore & Co., Colonial Trust Building, Philadelphia, only bidder, \$226,870.

General Foundry (extension), Navy Yard, Washington, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 3 stories, 201x132 feet, slag roof, concrete and maple floors, hollow tile, metal lath, rolled steel sash, fire doors. Low bidders: Warren-Moore & Co., Colonial Trust Building, Philadelphia, \$183,000; time, 210 days; Boyle Robertson Const. Co., Washington, D. C., \$187,965; time, 196 days.

Pattern Shop, Washington, D. C. Architect,

private plans. Owners, U. S. Govt., Bureau of Yards & Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Reinforced concrete and brick, 4 stories, 137x321 feet, slag roof, hot water heating, electric lighting, concrete, maple and composition floors, hollow tile, elevators, rolled steel sash and skylights, fire and hollow metal doors, ornamental iron work, roof ventilators. Low bidders: Warren-Moore & Co., Colonial Trust Building, Philadelphia, \$439,830; time 150 days; The Faribault Building Corporation, 15 Park Row, N. Y., \$442,386; time, 140 days.

Pier, Bulkhead and Wharf, Provincetown, Mass. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owners, Provincetown Cold Storage Co., Provincetown, Mass. Timber and concrete piling, timber, steel. Architect taking bids, due December 14th. Jas. Callahan, Provincetown, Mass.; Flynt Building and Const. Co., Palmer, Mass.; Rendle-Stoddard Co., Chelsea, Mass.; Frank Taylor, New Bedford, Mass., and H. P. Converse & Co., Boston, Mass., are figuring.

Brass Foundry, Navy Yard, Washington, D. C. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Concrete and steel, brick, steel sash, fire doors, concrete floors, concrete and slag roof, terra cotta tile partitions. Low bidders: A. C. Moses Const. Co., 916 New York avenue, Washington, D. C., \$281,506.74; time, 240 days; Warren-Moore & Co., Colonial Trust Building, Philadelphia, \$312,240; time, 210 days.

Miscellaneous

Contracts Awarded

Switch House, Wilmington, Del. Architect, private plans. Owners, Wilmington & Philadelphia Traction Co., Wilmington, Del. Brick, 1 story and basement, 30x75 feet, concrete floors. Contract awarded to Lewis & Roth Co., Broad and Chestnut streets, Philadelphia.

Restoration of Historical Building, Brandywine, Wilmington, Del. Architect, E. C. May, Dupont Building, Wilmington, Del. Owners, Historical Society of Delaware, Wilmington, Del. Brick, 2 stories, 50x35 feet, slate roof, hot air or hot water heating, electric lighting, pine floors. Contract awarded to W. Howard May, 1014 Rodney street, Wilmington, Del.

Chapel, Maryland, Del. Architect, J. J. Kennedy, Ford Building, Wilmington, Del. Owner, Rev. M. A. Cotter, Maryland, Del. Concrete and frame, 1 story, 25x150 feet, shingle roof, pine floor. Contract awarded to M. Smith, Ridgely, Md.

Gun Foundations (10), New Castle, Del., Clayton, Del., Wilmington, Del., Marcus Hook, Pa., Chester, Pa., West Philadelphia, Pa., Nicetown, Pa., Camden, N. J., and Gloucester, N. J. Architect, private plans. Owner, U. S. Government, care of builders. Concrete and stone, various sizes. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

You can't achieve anything worth while, whether it's peddling pills or discovering uncharted rivers, without advertising. If Columbus hadn't gone back and kicked up a racket about it, nobody in the Old World would have known yet that he had discovered anything.

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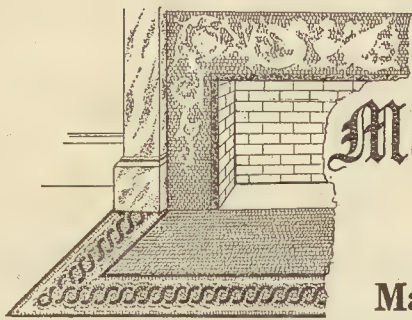
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Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Kilm, Venango and Amber streets, \$4,600. The A. Schoenhut Co. (O), on premises. Philip Haiback (C), 1261 North Twenty-sixth street. Brick, 1 story, 41x38 feet, slag roof.

Garage, 24153 North Fifty-second street, \$600. Geo. K. Garrett (O). Herman Voigt (C), 1251 North Twenty-eighth street. Stone, 1 story, 18x19 feet, slag roof.

Garage, 6555 Park avenue, \$350. Wm. Claussen (O), 6555 Park avenue. John Ashton (C), Fourth and Graner avenue. Brick, 1 story, 12x16 feet.

Dwelling, Eighty-second and Botanic avenue, \$1,500. John M. Kennedy, Jr. (O). 1001 Chestnut street. Chas. Swartz (C), 5703 Chestnut street. Brick, 2 stories, 16x30 feet, slag roof.

Potting Room, Service Building and Green House, Sunset and Germantown avenues, \$15,000. Geo. C. Thomas, Jr. (O), Chestnut Hill. King Const. Co. (C), North Towanda, N. Y. Greenhouse, 1 story, 25x66 feet and 25x85 feet; service building, 1 story, 11x17 feet and

26x20 feet, metal lath, shingle roof and steel and glass.

Garage, Eleventh and Loudon streets, \$2,500. Jco Fielding (O), 4800 North Tenth st. G. J. Reich (C), 1124 Loudon street. Brick, 1 story, 88x15 feet, slag roof, stone foundations.

Store Building, 1821 Chestnut street, \$12,000. Willis Winchester Co. (O and C), 1001 Chestnut street. Brick, 2 stories, 20x155 feet, slag roof, steam heat.

Garage, 1839 Wynnewood road, \$1,500. F. E. Aaron (O), on premises. Stacey Reeves & Sons Co. (C), 2011 Market street. Stone, 1 story, 16x16 feet, slate roof.

The world is just chock full of men who failed because they expected buyers to romp right in and ask for goods. Modern business spends big money simply to get the buyer interested knowing that sales follow.

The Value of a New Building to a Bank

(Continued from Page 789)

from which an answer was received replied in the affirmative to each of the questions.

One bank considers its building as its "best advertisement for many years to come," and says that its value in this respect "cannot be estimated in dollars."

An officer of another institution says: "The advertising value of a new building or improved quarters is, in my opinion, very high. People like beauty, and an imposing banking room appeals to most for the reason that a bank is supposed to represent the accumulated wealth of its community. Cheap equipment indicates a poor or cheap bank in the eyes of many."

Deposits, as a matter of cold figures, have in most cases shown positive and important increases, judging from the answers to question three. While a number of those questioned merely replied that deposits had increased, others gave actual figures.

Deposits of one bank, for example, increased from \$6,500,000 to \$9,500,000 since the erection of a half-million dollar building. Another's deposits increased from \$6,000,000 to \$12,000,000. Still another reported an increase of \$1,500,000 and another an increase of forty per cent.

It would be a fallacy to state that all of these increases were due to the new buildings. There were undoubtedly other factors; but all things being equal, the bank with attractive quarters and up-to-date modern equipment secures the most business.

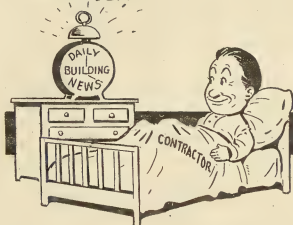
Of course, it must be borne in mind that, to be successful, the preliminary planning of a banking room must receive competent consideration. In order to insure the greatest facility and economy of operation, it is necessary that the designer and builder have thorough knowledge of the routine procedure of the banking business. A bank building may be most impressive in appearance, yet possess faults of arrangement which will cause permanent inconvenience and dissatisfaction to its occupants.

The result of Mr. Warren's investigation is fairly conclusive evidence that there is a real commercial value in properly housing a banking institution. Better facilities increase the loyalty of old customers and attract new accounts. They make for greater efficiency among employees and make pleasanter for customers their transactions with the bank. They increase public confidence in the soundness and strength of the institution. They make for increased profits, satisfied directors, well-pleased stockholders.

The obvious answer is: Build now!

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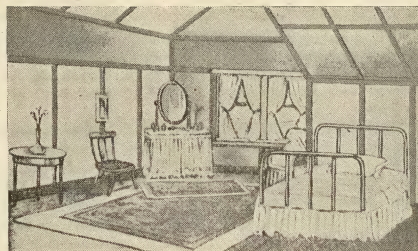
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Alterations and Additions

Store Building, Green and Chelton avenue, \$300. H. F. McCain (O), 5 E. Urise street. Geo. C. Fossel (C), 5606 Utah street. Alterations.

Store and Dwelling, 1837 South Seventh st., \$1,000. M. Slackof (O), on premises. M. Lessee (C), 816 Winton street. Fire repairs. Stable, 1736-38 South Orianno street, \$1,240. Harris Flomenhof (C), 1737 South Fourth st. B. Shesback (C), 528 Reed street. Alterations.

Garage, 423 North Sixty-fourth street, \$500. West Phila. Macaroni Co. (O and C), on premises. Brick, 1 story, 17x26 feet, slag roof.

Junk Warehouse, Dupont and Pechin sts., \$1,000. Janie Worsnap (O), on premises. Wm. H. Eddleman Sons (C), 453 Green lane road. Fire repairs.

Dwelling, Busleton pike and Byberry road, \$2,500. William D. Bubeck (O and C), Sumerton. Frame, 2 stories, 32x42 feet, slate roof, metal lath and stucco, water proof.

Dwelling, 2857 E. Thompson street, \$500. Wm. Stoebeanie (O), on premises. Jos. Slowinski (C), 2119 Oakdale street. Brick, 2 stories addition, 16x16 feet, slag roof.

Dwellings (14), 1024-40 Palmer street, 1102-10 Palmer street, \$930. Sam Goldstein (O), 212 Catharine street. Columbia Record Store Co. (C), 626 South Second street. Heaters (hot air).

Dwelling, 929 Spruce street, \$300. Emma B. Belt (O), Warrington, Va. Henry A. Ho-

bert (C), 2620 E. Cumberland street. Brick, 2 stories, 6x10 feet.

Store and Dwelling, Newcomb and Wayne avenue, \$700. S. Rudnitsky (O). A. Siemvinski (C), 1634 Rufner street. Alterations.

Office, Tioga and Edgemont streets, \$2,200. Quaker City Iron Works (O), on premises. E. F. Judge (C), 3003 Richmond street. Brick, second-story additions, 16x50 feet, slag roof.

Dwelling, 5218 Walnut street, \$650. Mrs. Hamilton Fish (O), on premises. Doyle Const. Co. (C), 5250 Walnut street. Brick, 2 stories, 12x18 feet, slag roof.

Offices, 1301 Arch street, \$775. H. D. Justis & Son (O), on premises. N. J. Doyle (C), 929 Cherry street. Steam heating boiler.

Offices, 704 Chestnut street, \$1,500. Frank & Morris Kaiser (O), New York. Frank Kaiser (C), 1517 South Sixth street. Alterations and repairs.

Store, 619 Chestnut street, \$1,850. D. Jayne Ets. (O), on premises. P. H. Sax (C), 1205 Franklin Bink Building. Steel tank, 12,000 gallons.

Shop and Garage, 2730 North Broad street, \$6,500. Ford Motor Truck Co. (O), on premises. Naton Redman (C), 5944 Walnut street. Fire repairs.

Shop, 1609-11 North Front street, \$2,000. Meyer Brooks (O), 6019 Market street. J. D. Fisher (C), 5426 Thompson street. Brick, 1 story, 31x34 feet, stone foundation, slag roof.

Garage, 2717 Oxford street, \$2,300. H. Bald-

win (O), 1814 North Twenty-fourth street. E. C. Durell (C), 1713 North Twenty-fourth street. Brick, 1 story, 58x19 feet, slag roof. Shed, 216-18-20 E. Allen street, \$2,450. Janney Lumber Co. (O), Pier 52 N. Wharves. Wm. Meyer Co. (C), 216 Quarry street. Shed, 1 story, 54x80 feet, slag roof.

Office Building, Botanic avenue and Eighty-third street, \$500. Geo. Kyle (O and C), Elmwood avenue and Island road. Brick, 1 story, 14x30 feet, slag roof.

Dwellings (4), Tulpehooken and Baynton street, \$12,000. Chas. H. Eckman (O and C), 2126 North Sixteenth street. Brick, 2 stories, 16x32 feet, slag roof, hot water heating.

Proposals

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 30th, 1917.—Sealed proposals will be opened in this office at 3 p. m. January 28th, 1918, for the construction of the United States post office at Sunbury, Pennsylvania. Drawings and specifications may be obtained after December 17th, 1917, from the custodian of the site at Sunbury, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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RATIO OF BUILDING COSTS.

Many home owners who have been compelled to give up cherished ideas about certain parts of the house, when building, could have saved money enough for their hobbies, had they possessed an accurate table showing the ratio of costs.

Beamed ceilings may often be bought with the money saved on some other part of the house without weakening the structure or detracting noticeably from its appearance. Sometimes, according to architects, too much money is spent on one part of the home and too little on another.

R. F. Whitehead, an Eastern architect, has worked out a table of ratios for builders, showing the relations of the cost of each structural unit to the whole cost of the home. His results, published in "The Independent," show how a home may be built on the budget plan. He has found that there are limits to the cost of a house that is built on a moderate priced lot and declares that on the other hand, no more than 40 per cent. of the whole home price should be invested in the site.

By taking averages he has compiled the following table:

Budget for a \$10,000 House.

	Cost.	Per Cent. of Total Cost.
House	\$10,000	59.7
Lot	5,000	30
Mason work.....	\$3,200	19.6
Carpenter work...	3,800	22.4
Tile work	260	1.4
Plumbing	800	4.6
Heating	750	4.3
Electric work.....	250	1.3
Tin work.....	240	1.2
Painting	700	4.2
Architect's fee	750	4.4
Wall paper, etc.	250	1.3
Fixtures	300	1.7
Grounds	500	2.9
	\$16,900	99.3

The construction of such a house, Mr. Whitehead contends, should be of the best, while the site should be in a district where houses are of the same general type and cost. In this way, the home builder gets the fullest value of his money.

While a \$10,000 house is not within the reach of everyone building a home, the architect contends that the percentages hold good for any modern city house. By going over the items with the contractor, the owner may learn where slight savings may be made through judicious buying on the part of the contractor and judicious elimination on the part of the owner.

TO PROTECT SHINGLES.

Shingles should be painted or stained before they are put on the roof, as it is just as important that the under side, and

especially the overlapping sections should be protected as that the exposed portions should be thus safeguarded, says the "American Roofer." There are now on the market several types of paint which give quite an efficient protection against fire.

Either painting or staining can be done by "dipping." If a stained shingle is required, there are numerous stains obtained for the purpose, all of which are efficient. They usually contain a coal-tar product of which creosote is a constituent and effectively prevent decay.

Any color, from the lightest silvery gray, scarcely coloring the wood, to the darkest shades of red or green, is obtainable. A cold color, like gray or an undecided green, goes well with pure white, and the roof of a house painted with the mellow tint, known as "Colonial White," may be a dull shade of yellow.

The stain should be poured into a tall, narrow vessel capable of taking in an entire shingle. The shingles are dipped by grasping the thin end with a pair of pliers or pincers, immersing them, holding them down with a stick for a few seconds, the pliers being removed; then lifting them from the bath with the pliers and standing them upright in some convenient vessel to drain.

Painting by dipping is done in the same way, but is a little more difficult, as it is necessary to stir the paint once in about ten minutes to prevent settling of the pigment (the solid portion of the paint).

For this use the paint may conveniently be more fluid than for brush painting. It is, therefore, recommended that to every gallon of prepared paint there be added one-half gallon of pure raw linseed oil. The rest of the procedure will depend upon the nature of the shingles. If they be of cypress or yellow pine, benzole should be added.

The shingles may be laid at any time after the stain or paint is dry, but it is good practice at the time of laying to give a coat of paint, as it comes from the can, to the overlapping undersurface of the shingle at the time of laying. This acts as a cement and is a most efficient preventive of leak and rot.

After the roof is completed it should receive a final coat of paint. Use the paint as it comes from the can, applying with a full brush and spreading out smoothly, but not too thin.

PRACTICE SALESMANSHIP AND PROSPER.

Time was when the cold season was the dull season with the sheet metal and fur-

nace man. There was little of inside worn and less outside. The shop was kept open for such repair work as might drift along, but on the whole, the winter days were not rush days. Under such conditions the sheet metal man did not get ahead very rapidly. The man in a rut goes on in the same old way and makes a living year after year if he is fortunate in the brisk season. He is the man who complains about hard times in the sheet metal trade. In strong contrast to him is the man who gets out and hustles—the man who does not wait for business to come to him, but who goes out and digs up business. This is the modern progressive sheet metal contractor. He prospers because he practices salesmanship. He is not content to wait in his shop until some owner comes to him and asks him to give an estimate. He is out looking for work, canvassing for it, and always has his eyes open for something extra. When he is asked to estimate on a roof for a building he makes sure to find out if the owner wishes leaders, a ventilator or some other work done which he can perform. In other words, he lets no opportunity slip. He is the man who always has something to tide over a dull season. He takes up what the old-timer is likely to characterize as specialties. But there is nothing of the specialty about them to the man who has found out the profit he can make off them. The former is the type of man responsible for carpenters erecting metal ceilings, metal trim, metal shingle and the like. The latter is the man who is fighting to get these lines wholly back into the sheet metal trade. And he is the man who is becoming prosperous. He has found the remedy for lack of prosperity in the sheet metal trade—and that remedy is one available to all—salesmanship. The man who recognizes his opportunities and then puts forth his best efforts to take advantage of those opportunities is practicing salesmanship. There are plenty of opportunities, and the winter is an excellent time to practice them, especially on such lines as metal ceilings, humidifiers, heat regulators and similar products. These are good examples to prove that the sheet metal and furnacemen who practices salesmanship prospers.

—"Sheet Metal."

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The best is the cheapest on both ends and in the center. Improvement does not impose a tax, as efficiency pays for itself. The penny scripper cannot possibly hold out against as much as the gloomy, ugly, and unobliging progress. The best equipped shop never asks establishment. Be progressive.

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Roofing.

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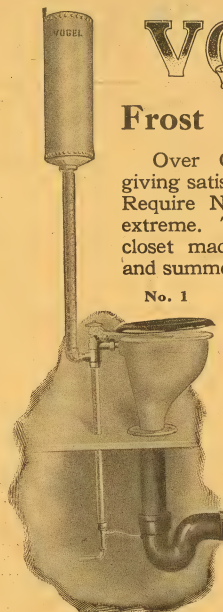
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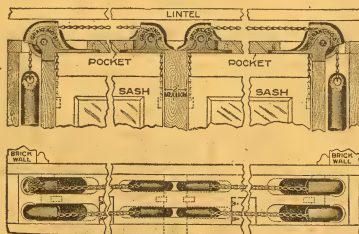
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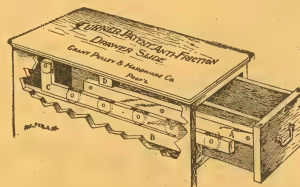
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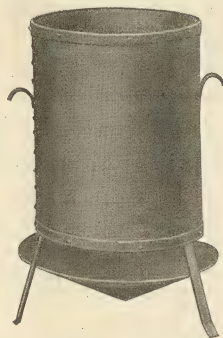
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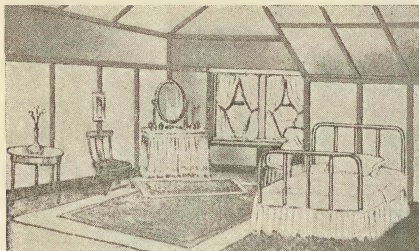
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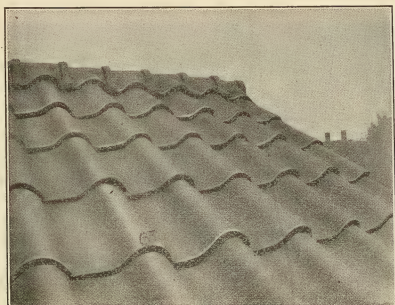
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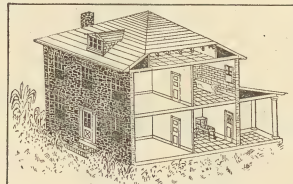


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VOLUME XXXII
Number 50
PHILADELPHIA
December 12, 1917

BUILDERS' GUIDE

FORMERLY

The Philadelphia Real Estate Record
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PUBLISHED WEEKLY

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As The Editor Sees It



THE *Journal of the American Institute of Architects* devotes a chapter or so in its November number to the housing situation in which the official aspect of the problem is so admirably stated that we feel we cannot do better than pass it on to our readers.

"The industrial Housing Emergency, in its relation to the war, seems to be involved in a maze of obscurity," remarks the *Journal*. "The original committee of the Council of National Defense, charged with the task of investigating the situation, made its report to that body more than two months ago. Its findings must have been either incomplete or unsatisfactory, for the Council immediately began holding hearings which apparently had no other object than the verification of the evidence presented by the committee. This process did not produce any tangible result, and we may suppose that it still left the whole question where it was at the beginning, since a third committee, of which Mr. Otto Eidlitz, of New York City, was made chairman, was charged to cover the same ground. This committee reported directly to the President and his cabinet, we believe, and while the substance of the report has not been made available, press reports indicate that it carried definite recommendations and made plain the fact that a shortage of houses was seriously interfering in the production of many vital necessities of war. Subsequent to that report, there have been rumors to the effect that financial aid would be ex-

tended to one or two housing undertakings which had been begun, or which were ready to begin, but which had been stopped by shortage of money. Other rumors were to the effect that the whole matter, with the possible exception of such action as we have mentioned, would be left to be dealt with by Congress at its next session.

* * *

THE Shipping Board, which has separate authority for dealing with the house-shortage, has, according to a press report, enlisted the services of Mr. Flannery, President of the American Vanadium Company, whose task will be to see that housing accommodations are provided, as fast as possible, for workmen in the shipbuilding centers. On the other hand, it is also rumored that the Shipping Board's Committee on Housing will be merged with a general Commission on Administration, which will deal with all housing undertakings in which the Government has an interest. What the policies of this Commission will be is still left largely to conjecture, although current opinion inclines to the belief that it will devote most of its effort to financing private undertakings with government funds, and will commit the Government to actual participation in land-purchase and house-construction only when no other solution can be found."

SOME OF THE difficulties, legal and financial, involved in this question of industrial housing are pointed out in an article on the subject in the *Journal* from the pen of Mr. Frank B. Williams. Of the indisposition observable in governmental quarters to take up the subject along European lines Mr. Williams writes:

"Prior to the beginning of the war in Europe, in spite of the fact that the need of the cheap house in this country was acute, and the prospect that private initiative would supply this need adequately was at best remote, there seemed to be little probability that our government would give financial aid. The reason for our failure to adopt the remedy regarded as necessary by practically all the rest of the world was twofold: In spite of much expert opinion here in its favor, we did not as a people regard housing as an activity in which our government should engage; and we did not believe that, however desirable it might be, we could in this country legally adopt such a policy.

"The effect of the war upon the housing situation in the United States has been very marked. Soon after the struggle began in Europe, the cost of materials and labor, and the rate of interest and profits, rose sharply. The effect of these increases varied greatly in the different parts of the economic field. The production of goods for immediate consumption, although decreased, continued to be sufficient to meet most of the immediate

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and pressing needs; since the consumer paid for these goods at once, their price could at once be increased to meet the higher cost of production; and the fear of lower prices of material and labor after the war did not lessen the output. In the field of housing, however, the situation was radically different. A house is constructed to last many years, during the whole of which period, if an adequate return on the investment is to be obtained, adequate payments for its use must be coming in. In housing, therefore, lower construction costs after the war, and the competition of cheaper houses which it would ensure, would make houses built at present prices a losing venture. The result of this possibility was therefore an almost entire suspension of construction of the more moderate-priced houses."

* * *

IT is in this crisis that earnest students of social conditions in this country and the general public are asking themselves more seriously than ever before whether or not this country should, perhaps, as a part of its normal activities in times of peace, perhaps only as a war measure, adopt the policy of government aid, State or national, in the housing of its working classes of more limited means, and, if so, whether it is possible under our law to do so. It is the legality of such a policy, and the best methods in the light of foreign experience of carrying it out, with which this article is concerned.

"Financial aid, given by the government to housing or any other activity, involves the use of public money. This money in this country must be obtained by taxation. The consideration of the legality of government aid to housing in the United States is therefore the consideration of the legality of the use of public money and of the power of taxation for that purpose."

"The State of Massachusetts, since the war in Europe began, has thought it necessary to pass an amendment to its constitution in order, tentatively, and on a small scale, to undertake State housing, and Pennsylvania has appointed a commission to consider the advisability of doing likewise. These states are undoubtedly wise in amending their constitutions before attempting ever so slightly and tentatively, to extend aid to housing; and it is probable that other States, wishing to adopt such a policy, will follow the same course."

* * *

IN peace times the various European governments have lent money to limited dividend corporations at from 2½ to 3½ per cent. In England, I am told, the rates have now risen to 5½ and even 6 per cent. The amounts advanced in peace times in the different countries

have been all the way from 50 per cent. of the value to 90 per cent. of the cost of the house and land. In England the proportion advanced by the government was in peace times usually about two-thirds of the cost or value, and, I am told, as a war measure, the amounts have been increased to 90 and even 100 per cent. of the cost. It is probable that we in this country at this time, if we adopt any such methods of aiding housing, will be compelled, under the industrial and financial conditions now prevailing, not only to advance the entire cost, but to agree to allow the companies to write off a portion of it, as has been done in various ways as a war measure in England, for, otherwise, after the war, when construction has become less expensive, the companies would be compelled to repay more than the worth of the houses. Such an arrangement would still be advantageous to the government, for the values of the houses, if publicly owned, would decrease just the same; the plan suggested would secure to the government the gains incidental to private initiative, and if the companies were bonded or the shareholders were made individually liable to the amount of their subscriptions, the government would be sure of repayment of the amounts due it.

* * *

ANOTHER danger which the policy of public loans, rather than public construction, tends to obviate, is the lessening of private construction which public competition usually causes. The government is not obliged to rent or sell its houses at the market rate, and often in its attempt to relieve the situation as much as possible, or on account of political pressure, accepts less than the market return, covering up the loss, perhaps, by juggling with the figures. The fear of this unfair competition discourages and greatly lessens private building, and, thus, often government assistance, unwisely given, decreases the available housing supply rather than increases it; for the number of houses publicly built will always be very few in comparison with those due to private enterprises. Where, however, the government lends to private parties for construction, this danger is, to a considerable extent, avoided."

* * *

IF you have followed these extracts from Mr. William's very interesting and informative article you will have perceived that governmental aid, under our American laws, is not the easy and facile thing that some of us, perhaps, have been prone to picture it.

Undoubtedly a way will be found to overcome such difficulties as exist. We must concentrate labor, and the labor thus concentrated must be housed. To the solution of the problem here present-

ed many pre-existing ideas must, necessarily, be subordinated. The legal obstacles are not inseparable. The economic dangers can be overcome by careful administration. Housing we must have to win the war, and that we are going to win it no American with good, red blood in his veins harbors the faintest iota of doubt.

* * *

THERE is not the slightest reason to doubt that, quite apart from the demand which is asserting itself for the rudely-constructed and largely temporary type of workmen's "home," designed to meet the needs of a floating labor army attracted to the big industrial centers by quasi-military activities, the operative builder is overlooking an opportunity in failing to meet a co-existent demand for homes of the better type. Never in the history of the big cities has there been so clamorous a demand for the moderate-priced type of dwelling. This is true not only of renting, but of sale.

An investment concern that will build for rental at this time will experience no difficulty whatever about filling its houses with an excellent class of tenants at rentals high enough to yield a splendid return on the investment. The selling demand is simply remarkable. Properties that have lagged unsold for years by reason of minor defects in planning, have sold within the past few months at an advance in price averaging anywhere from fifteen to twenty-five per cent. over original asking figures. There is cause for gratification in the fact that here and there operators are beginning to awake to the situation and break ground on new projects. Several of the larger operators contemplate a renewal of activity in the spring despite the prevailing difficulties, labor and material. A bad scare was thrown into the trade last week in the story that the government proposed to commandeer for shipyard use all of the gravel and sand available. It now looks as if this yarn was to some extent exaggerated. New York advices are to the effect that no move has yet been made to take over sand and gravel in the New York territory and advices from Baltimore are to the same purport.

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EDITORIAL NOTES

According to the "Gazette-Review," of Atlantic City, N. J., a committee representing the New York Shipbuilding Corporation, of Camden, N. J., is considering the housing in that city of a considerable number of their employees. Many of the smaller hotels, which usually shut down over the winter are making arrangements to reopen in order to accommodate this unexpected demand. Representatives of the shipbuilding company say that a schedule of train service will be arranged with the Pennsylvania Railroad.

It is reported that the Hog Island Shipyard people are contemplating the erection of a colony of workmen's homes in the meadows in the southwestern section of the city. The question of finding housing accommodations for the vast influx of new employees that are to be brought to Philadelphia by war industries is said to be the most serious problem thus far brought about by the war.

A "booster" meeting was held recently by the Harrisburg, Pa., real estate board, at which the uppermost topic was the serious shortage of houses in that city. It was stated that many families are compelled to double up, two families to a small house. The board is considering measures for relief.

The Merchants' and Manufacturers' Association of Columbia, Pa., is seeking subscriptions to a fund for building dwellings, a serious shortage in housing having appeared, due to the rapidly growing population and the expanding industrial activities.

The zoning law of New York City is apparently to be subjected to another judicious test. Baron Astor has filed plans for a seven-story business building in the Murray Hill district. It front on the west side of Madison avenue, between Thirty-fifth and Thirty-sixth streets, one of the choice residential districts.

At a talk on home building, presented recently at a meeting of the South Bend, Ind., real estate board, L. C. Whitecomb said that people to-day have outgrown the old-time habit of buying cheap houses, built especially for the market and instead want well constructed houses for which they are willing to pay a fair price.

This nation's trade with the countries of South America is at least three times as extensive as it was in the year immediately preceding the outbreak of the great world war. In the eight months ended with August (the latest month for which figures are available) exports to the sister republics of the south aggregated \$188,000,000, compared with only \$65,000,000 in the corresponding period in 1914. Imports from South America totalled \$433,000,000, compared with \$157,000,000 in 1914.

The fire loss in the United States and Canada in October amounted to twenty-six and one-third million dollars. The total for ten months is \$221,002,315, as compared with \$189,481,220 for the first ten months of 1916 and \$140,754,250 for the corresponding period in 1915.

Nearly 600 houses are in course of construction at Bethlehem, Pa. This is about one-tenth of the number that is needed.

In an effort to provide living quarters for the workmen in the shipyards along the Delaware River, a syndicate is buying up old vessels, and chartering those which are usually tied up during the winter months. The syndicate also purposes to purchase a number of discarded Pullman cars and place them as near the shipyards as can be arranged, where they will be heated and made as comfortable as possible for the men during the winter.

In spite of the high cost of building material and the scarcity of labor, it is a statistical fact that building operations in Atlanta to-day are more numerous than at any time in its history. This building activity is not confined to any one line, but includes residences, business structures, office buildings, warehouses and factories.

The official city building report for October in Pittsburgh, Pa., disclosed 170 new buildings permitted during the month, to cost in the aggregate \$1,567,124, as against 292 permitted in September, costing \$731,636, and 253 in October, 1916, to cost \$708,771.

The estimate cost of building operations in New York State, based on permits issued in the ten largest cities of the State, was thirty-one per cent. greater in September than in the previous month, and three per cent. less than in September of last year. As compared with August, six cities—New York, Rochester, Schenectady, Troy, Utica and Yonkers, reported gains. As compared with September, 1916, four cities—Rochester, Schenectady, Troy and Utica, reported gains.

A Bureau of Municipal Research has been established by the rapidly-growing city of Akron, Ohio. It is to be in charge of Don C. Sowers, formerly assistant at the Dayton Bureau of Municipal Research, and prior to that Professor of Municipalities and Public Accounting in the University of Oregon.

From the White Pine Bureau we learn that at the present time there is a very brisk market for white pine lumber. In spite of car shortage and labor troubles which have manifested themselves at some of the Idaho white pine mills production is keeping up or slightly ahead of demand. While prices have advanced considerably during the past year, due en-

tirely to demand, lumber prices in general have not kept pace with the advances in other commodities.

From J. H. Eddy, manager, Kaul Lumber Company, the following information of interest to prospective builders has been received: "As to market conditions touching Southern yellow pine, we can only say that the situation is statistically strong. There is an ample supply available of all sizes and grades used in general construction, including housebuilding, and, subject to car supply and transportation conditions, there should be no serious difficulty in prospective builders securing any reasonable quantity of standard items.

The Fifth National Foreign Trade Convention, under the auspices of the National Foreign Trade Council, will be held in Cincinnati, February 7, 8 and 9, 1918. The official call is soon to be issued by James A. Farrell, chairman of the National Foreign Trade Council.

G. A. Peterson has been appointed Philadelphia manager of the A. B. See Electric Elevator Company. Mr. Peterson was formerly located in Baltimore.

C. C. McDermott, of the Lord & Burnham Co., will shortly make an extended trip through the South for the purpose of studying conditions.

D. Knickerbacker Boyd announces that he has admitted to partnership Victor Darwin Abel and will continue the practice of architecture under the firm name of D. Knickerbacker Boyd & Victor D. Abel, architects, at the present offices in the Otis Building, Philadelphia.

Now in its eleventh year, the Girard Life Insurance Company has become big and sturdy enough to build a home for itself which it now occupies at 529 Chestnut street, opposite Independence Hall. The building is thoroughly substantial in construction and modern in design and appointments, giving the business the needed room for growth and expansion which has been steady and consistent since its first year. Nathan T. Folwell, president of Folwell Brothers & Co., is president; Joseph M. Steele, president of William Steele & Sons, is vice-president; Richard H. Wallace is vice-president and treasurer, and Albert Short, secretary and actuary. The company now maintains and operates agency forces in Pennsylvania, New Jersey, Ohio, Illinois, Missouri and Iowa. Its annual income and insurance in force have trebled during the past decade; its resources in 1916 were over 43 per cent. greater than in 1907. All its insurance, it is said, has been written by its own representatives, none having been taken over from other companies. Many prominent men in this city and State are on the board of directors and the company looks forward to the new year with good prospects for continued growth and gain.

Burt L. Fenner, of New York City, has been placed in nomination for the office of president of the American Institute of Architects. The signers to the nominating petition included: John M. Donaldson, William B. Stratton, D. J. von Schneider, Charles Kotting, F. J. Winter, Arthur H. Scott, William Reed-Hill, John Scott, James B. Nettleton, and Hugh B. Clement, of the Michigan Chapter; Edward A. Crane, John Hall Rankin, John P. B. Sinkler, E. P. Bissell, and George I. Lovatt, of the Philadelphia Chapter.

* * *

Adolph Hinrichs, formerly designer in the office of engineer of structures, New York Central Railroad, is now structural engineer in the office of Albert Kahn, architect, Detroit.

* * *

N. J. Henry Manufacturing Company, makers of window, door and porch screens, metal weather strips and glass inclosures, have established its plant at 983 Flatbush avenue, Brooklyn, and executive offices at 1 Broadway, New York City.

* * *

American Institute of Architects has mobilized the architects throughout the country for war service. Some are now in France, supervising the construction on the aviation fields to be used by the flying forces of the United States; others are in training in this country, notably in the camouflage battalion at the American University Camp, Washington, D. C. Three thousand architects are already at the disposal of the Government.

* * *

Robert L. Pryor, architect, has discontinued his office at 207 Market street, Newark, N. J., and will continue the practice of his profession at his residence, Irving place, South Orange, N. J.

* * *

Harold D. Hynds, of the Turner Construction Company, New York City, has resigned as secretary of the American Concrete Institute, on account of his acceptance of a commission in the Signal Corps, U. S. A. His successor as secretary is H. B. Alvord, of the Aberthaw Construction Company, Boston. Mr. Alvord was graduated from Massachusetts Institute of Technology in 1907, and after some years as instructor at that school and as assistant professor at Bowdoin College, entered the Aberthaw Company. The address of the American Concrete Institute is now 27 School street, Boston, Mass.

* * *

The American Concrete Steel Company, 27 Clinton street, Newark, N. J., has obtained the general contract for the construction of a large munition plant at Bloomfield, N. J. This operation, which will cost in the neighborhood of a half million dollars, will be located at Boomfield avenue and Grove street. The construction is of reinforced concrete and steel, one story, with ground dimensions of 240x600 feet. The building was planned by Francisco & Jacobus, 511 Fifth avenue, Manhattan, and will be occupied by the Interna-

tional Arms and Fuse Company, J. R. Fifer, engineer in charge.

* * *

The past week was again a noteworthy one for the volume of additional Governmental construction announced to the trade. It had been previously stated that the war program had been well advanced, but as the conditions in Europe mature it has become apparent that the United States will become a greater factor in the struggle than was at first anticipated and that fact necessitates a much greater volume of preparation in all branches of army and navy activities and also in those lines that will provide the munitions and supplies. The new work of the last week includes additional barracks, storehouses, aviation fields and training quarters, hospitals, and a number of industrial plants that will be used exclusively for the manufacture of ammunition and supplies.

* * *

During the week there was a report current that the Federal Government had commandeered the entire output of sand and gravel of the nation for war purposes. The newspapers devoted considerable space to the report, but up to the present writing there has been no formal or definite announcement and sand and gravel interests claim that they have not been officially informed of this action. If the

rumor resolves itself into a concrete fact it will undoubtedly prove itself a body blow to a much harassed industry. On account of the difficulties encountered in obtaining structural steel there has recently been a marked trend toward reinforced concrete construction wherever possible. As sand and gravel are important and necessary ingredients in all concrete the result of such an order will be apparent to everyone. Prominent sand and gravel concerns, with headquarters in New York, have not received notice that their output is to be commandeered by the Government and they do not think it likely that it will be. The majority of these firms are already delivering to Federal agents large quantities of both sand and gravel for military purposes and no further pressure is anticipated at this time.

* * *

Chicago Cement Machinery and Building Material Show will be held in the Coliseum, Chicago, February 6-13. The show will be held under the auspices of the National Exhibition Company, 123 Madison street, Chicago.

* * *

Pennsylvania and Atlantic Seaboard Hardware Association and the New York State Retail Hardware Association will hold a joint annual convention and exhibition in New York City, February 12, 13, 14, 15, 1918. Headquarters at the Hotel Astor.

UNITED STATES TAKES OVER GRAVEL AND SAND OF THE NATION FOR GOVERNMENTAL NEEDS

Affects Every Branch of Building Work and Hampers City Work

What Commandeering Sand and Gravel Output Means to Non-Governmental work.

"It will affect everything in the way of Philadelphia municipal improvements with perhaps the exception of the Torresdale filtration plant."—Director Datesman.

"I know it's going to stop work on the building of League Island Park."—Senator Vare.

"I don't see how things are going to turn out if no sand or gravel is available for private use."—Jerome H. Louchheim, president of Keystone State Construction Company, which holds millions of dollars' worth of subway contracts.

"If there's no sand there will be no concrete, and hence no buildings."—Edwin M. Evans, of Evans Construction Company.

The entire sand and gravel output of the country, it is understood in building circles, has been commandeered by the United States Government. Formal possession will be taken by Federal officials.

It is known positively that three big companies in this district are affected.

George D. Van Seiver, president of the De Frain Sand Company, of this city, said that his own company, as well as the National Lighterage and Dredging Company, of this city, and the Pennsylvania Sand and Gravel Company, of Tullytown, Pa., will be operated by the Government.

Jerome H. Louchheim, president of the Keystone State Construction Company, which holds millions of dollars' worth of contracts for subway construction in connection with this city's high-speed transit system, said that he understood every sand and gravel concern in the country will be taken over by the Government.

Mr. Van Seiver said that the sand and gravel output of the De Frain Company's deposits was to be used at Hog Island by the American International Shipbuilding Corporation and at Bristol by the American Shipbuilding Company.

Herbert Allen, formerly with the General Crushed Stone Company, is the man Mr. Van Seiver intimated will be the supervising engineer in charge of the transfer of the plant.

Mr. Allen enlisted, it is thought, in the engineering corps and will be the Government representative.

Equipment Diverted.

The estimated quantity of sand and gravel diverted for this use from the productive resources of the De Frain Sand Company was estimated roughly by Mr. Van Sciver at 750,000 tons. He added:

"We have many large contracts for sand and gravel, and these will have to wait until some arrangement can be made. We may be able to divert some sand and gravel after the Government gets what it needs, though it will need all it can get for a few months. We have large contracts with the Philadelphia Electric Company for its new power house at Palmer street, near the Delaware River; we also had large contracts for sand and gravel for the Westinghouse plant at Chester; the Keystone Construction Company for sections of the subway work and with Baldwin's at Eddystone."

Mr. Van Sciver thought that the turnover of all this sand and gravel probably would delay work on subway construction and other municipal improvements until early spring.

"I believe," he said, "all work on municipal improvements will be delayed for at least two or three months," Mr. Van Sciver said, as the Government merely gave notice that the entire equipment had been commandeered.

In estimating the amount of sand and gravel diverted from large contracts involving the construction of industrial and municipal projects, Mr. Van Sciver said that material valued at approximately \$1,000,000 would be held up.

Hope for Release in Spring.

The manner in which this transfer will be effected, Mr. Van Sciver asserted, would be through an expediting organization formed by representatives of the War Department, who will direct the shipment and apportioning of material. He continued:

"It may be possible later to divert some supplies of sand and gravel to the Philadelphia subway work, though that depends on how much the Government needs and how soon it can be obtained. We are anxious that it be over as soon as possible. We have a new dredge being built, and if the weather is favorable the Government should complete its concrete work by April to a point where we can either withdraw or be allotted a portion of the supply for other work. But we are glad to give all the assistance possible and to co-operate in every way with the Government. The ships have to be built and the shipyards must be considered first."

Stops League Island Park.

When asked what the effect would be on the work of constructing the Broad street subway, Senator Vare said:

"I don't know about the subway construction, but I do know it's going to stop work on the building of League Island Park. I was told to-day that I could not get any more

cobblestones for this work. There will be a big delay in building the park. It's too bad, but it can't be helped."

Director Twining said:

"The taking over by the Government of the sand company will not affect greatly the construction of the Broad street subway, as far as I know. I understand the Keystone State Construction Company has enough stock on hand to carry on the work for some time, at least until the work at Hog Island is completed."

Mr. Louchheim said:

"There will be enough material to last us for some time, perhaps until the winter is over. After then, who knows? The Government has commandeered all the sand and gravel concerns in the country, I understand. This commandeering is not confined to the De Frain Sand Company."

"Why, the Government could not take care of all the output of the sand if it would. It could not unload it from the cars. It is hardly fair to the advancement of big municipal improvements like the subway to be deprived of the wherewithal to complete them."

"The De Frain Sand Company, I am informed, offered to give the Government as much sand as it wanted for the completion of the Hog Island shipyard. But the Government took over not only all of the De Frain Company's output, but the output of all the gravel concerns. If the Government had only taken over one company's output or part of the output from each company, it would not have been so bad. I don't see how things are going to turn out if no sand and gravel are available for private use."

"We get most of our sand from the Newton Supply Company."

Torresdale Plant Immune.

Director Datesman said:

"If it is true that the Government has commandeered the sand and gravel output, it will affect everything in the way of municipal improvements with, perhaps, the exception of the Torresdale filtration plant. The sand used in the filtering of city water can be used and reused again, so that would not be hurt materially."

"The street railway system, all highway improvements, sewer construction and sewage disposal will be hampered. Unless we can find a substitute for sand and gravel, the streets will not be repaired. In short, any public work in which sand is used will be greatly affected."

"The city has on hand very little sand and gravel. You see, we have all supplies delivered when needed and wherever needed. The city has no place to store sand and gravel."

**The chap who bags the glittering prize
Is the fellow who learns to advertise**

**Don't knock. Boost! Don't grouse. Smile!
Don't mope. Advertise!**

**Even the best piece of machinery gets a
hot bearing once in a while.—Ex.**

PLENTY OF BUILDING MATERIAL.

An English nobleman was about to set out for India, and fearing that in his absence vandals might destroy a picturesque ruin on his estate, he said to his steward: "I want you to build a wall here"—and drew a tiny furrow with his stick around the ruin—"a stone wall five feet high."

On his return home the nobleman started for the spot. When he reached it he rubbed his eyes in amazement. There was the new stone wall, but he could see nothing towering up inside of it. He turned excitedly to his steward:

"Look here, where's the ruin, man?"

"The ruin, my lord?" replied the steward. "Oh, that old thing? Sure, I used it to build the wall with."—Chicago News."

KEEP THE POT A-BOILING.

Keep the pot boiling. Because we are at war seems not to be a good reason why we should all abandon our every-day pursuits and wait for a shower of manna. Keep the country prosperous. Maintain the basic industries. Don't say, "Let's 'lay off' until the war is over." Don't hang around the bulletin boards, or bury your cash in the cellar. Hustle! Put your money where it will do some good.

How, in the name of Patriotism, can we punish the Kaiser by abandoning our business pursuits? Let's "cut out" the pork barrel expenditures. Let's economize. Let's have no more of wasteful extravagance, either during the war or after it. Smash the pork barrel with an axe. It doesn't matter whether it's the big National pork barrel, or just a little village cask from which the local magnates fish out rich and luscious bits of pork from time to time. Get rid of the pork barrels. Not as a war measure, but rather because this is an opportune time to clean house. And after we have the house cleaned, let's keep it so.

Don't forget that the production and handling of building material are basic industries of the country. The building business is now bearing a heavy load—because of high fuel prices, high labor costs, scarcity of cars, scarcity of production. Any tendency to add greatly to the burden that construction must bear, either by taxation or by unnecessary curtailment in manufacture or distribution, will strike at the base of this fundamental industry, and may do great harm.

The building of schools and other needed public buildings, the developing of our land by drainage projects, by irrigation, by road-building, by any of the projects that are based on a real public need, ought to proceed unhampered by the war. The same broad rule should apply to needed private construction work. Every factory for which there is actual need is a public benefit. Every needed dwelling house for which there is a legitimate demand should be built.

**One way to escape the income tax is to
quit advertising and do less business.**

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence, Oak Lane, Philadelphia. Architect, Wesley L. Blithe, 608 Chestnut street, Philadelphia. Owner, C. E. Lloyd, Jr., Eighth street and Sixty-sixth avenue, Oak Lane. Stone and hollow tile, 2½ stories, 35x30 feet, slate roof, hardwood floors, electric lighting (heating reserved). Owner will build and is taking sub-bids.

Factory, 224 Pine street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owners, M. Kardon Paper Co., 224 Pine street, Philadelphia. Stone foundations, brick and steel, 1 story, 38x115 feet, slag roof, concrete floors, electric lighting. Owners taking sub-bids.

Sewage Disposal, Contracts No. 17 and No. 16L, intercepting sewer along Frankford Creek and miscellaneous piping, etc., for grit chamber, north of Lycoming and west of O streets, Engineers, Bureau of Surveys, City of Philadelphia, City Hall, Philadelphia. Owners, City of Philadelphia, Department of Public Works, Geo. E. Datesman, Director, City Hall, Philadelphia. Consists of concrete pre-cast pipe, 520 linear feet, monolithic concrete conduits, chambers, etc. Owners taking bids, due December 18th, at noon.

Store and Apartments, 5535 North Seventeenth street, Philadelphia. Architect, Wm. H. Wooters, 816 W. Allegheny avenue, Philadelphia. Owners, Hendricks Hardware Co., care of architect. Brick, 2 stories, 49x15 feet, stone foundations, slag roof, hardwood floors, electric lighting, stone front, cement basement floors, timber underpinning, hollow metal skylights, flush bulks, copper work, glazing, hot water heating. Revised plans in progress. Architect will take bids in a few days.

Garage, 708 South Third street, Philadelphia. Architect, private plans. Owner, Abe Spear, 715 South Third street, Philadelphia. Brick, 1 story, 30x130 feet, slag roof, electric lighting, cement floors (gasoline storage system reserved). Owner is taking sub-bids.

Residences (12), Seventy-first and Grays avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Calvin W. Rogers, Forty-ninth and Locust streets, Philadelphia. Stone foundation, brick, 2 stories, 14x38 feet, slag roof, hot air and hot water heating, combination lighting, pine floors. Plans completed. Owner will take sub-bids in a few days.

Buildings, throughout city and county of Philadelphia. Owners, Penna. RR. Co., Broad Street Station. Engineers, M. of W., Penna.

RR. Co., Broad Street Station. Consists of new roofs and repairs where needed to roofs of buildings in above mentioned territory. Owners taking revised bids, due December 17.

School Building, Oak Lane, Philadelphia, \$150,000. Architects, Magaziner & Eberhart, 603 Chestnut street, Philadelphia. Owners, Oak Lane Country Day School, Oak Lane, Philadelphia. Hollow tile and brick, 1 story, 150x500 feet, connecting corridors. Architects taking approximate bids. Specht & Sperry, Heed Building, are figuring.

Photographic Studio (alts.), Administration Building, Emergency Building and Temporary Storage Building, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Government, care of C. E. O'Leary, Pay Inspector, U. S. N., Philadelphia. Frame, 1 story, 18x32 feet, and 1 story, 27x26 feet. Ready roofing, roof ventilators (heating and lighting reserved). Building A, 1 story, 100x600 feet; building B, 1 story, 70x347 feet; building C, 1 story, 30x100 feet; building D, 1 story, 25x115 feet. Owners taking bids, due December 14th. Wills-Ludwick Co., 34 South Seventeenth street; Wark-Yardley Co., 1737 Filbert street; Conneen Const. Co., 1737 Filbert street; F. L. Hoover & Son, 1023 Cherry street; Lam Building Co., 1001 Wood street, and McCloskey & Bahis, 1620 Thompson street, are figuring.

Garage, Queen Lane and Schuyler street, Germantown, Pa. Architect, Samuel D. Hawley, 3rd, Queen Lane Manor, Philadelphia. Owner, Charles G. Kirkpatrick, Wissahickon avenue and Queen Lane. Brick, 1 story, 60x90 feet, slag roof, steam heating, electric lighting, cement floors, tapestry brick. Architect has received sub-bids.

Battery and Store Room (add.), 1328 Race street, Philadelphia. Architect, Joseph A. Roletter, City Hall. Owners, City of Philadelphia, Department of Public Safety, City Hall. Consists of new partitions, plastering, cement floors. Low bidders: George Dobbin, 414 S. Forty-first street, Philadelphia, \$1,000; E. C. Durell, 1713 N. Twenty-fourth street, Philadelphia, \$1,000.

Residences (12), Fifty-first and Springfield avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner's name withheld. Brick, stone foundations, 2 stories, 16x50 feet, slag roof, hot water heating, combination lighting, tile and marble work, hardwood floors. Plans in progress.

Residences (12), Limekiln Pike and Washington Lane, Philadelphia. Architect, E. Allen

Wilson, 1208 Chestnut street, Philadelphia. Owners, Model Building Co., Morris Building, Philadelphia. Brick and stucco, stone foundations, 2 stories, 20x55 feet, slate roof, hot water heating, combination lighting. Plans completed. Owners ready for sub-bids December 14th.

Residence (alts. and add.), City Line and Limekiln Pike, \$6,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Model Building Co., Morris Building, Philadelphia. Stone, 3 stories, consists of stone work, shingle roof, electric lighting, hot water heating, tile work. Plans completed. Owners ready for sub-bids December 12th.

A DROP OF INK.

A drop of printer's ink
May make a thousand think.
A single drop
May keep your shop
From getting on the blink.

A drop, when hardly dry,
Makes many people buy.
It helps your biz',
And thereore is
A goodly thing to try. —Ex.

If you've got a specialty that will commend itself to builders, make a contract for space and start right in and talk about that specialty. Dwell on its good points, point out its advantages over similar devices, set forth its dominant qualities. And keep right on, week after week talking about it. If you don't book orders we'll bet you a big red pipkin that there is either something better on the market or your specialty isn't worth a kopeck noway.

Don't try to see out of some other man's eyes when you've got a pair of your own,—use them and go over every job carefully before you consider that you are through with it, and don't forget that one "good job" is a better advertisement than many poor ones. —Exchange.

HEATING

BOWERS BROS. & CO.

1629 Ludlow Street
Philadelphia, Pa.

"TRIDENTS" FOR
WATER, OIL,
GASOLINE, BRINE,
ETC., ETC.

"TRIDENT" METERS

MORE TRIDENTS
IN PHILA. THAN
ANY OTHER
MAKE

PHILADELPHIA METER CO., 942 Real Estate Trust Building.

BOTH PHONES

Military Roads

*Resolution Adopted by Chamber of Commerce of the United
States in Convention at Atlantic City, September 21, 1917:*

WHEREAS, It is essential that all the transportation facilities of the nation should be brought to the highest state of efficiency in order that foodstuffs may be moved most economically from the farm to the market, that manufactured products be moved at the lowest cost from the factory to the consumer, and

WHEREAS, The Public Highways offer a good, prompt and economical means to supplement transportation by rail and water, therefore

BE IT RESOLVED, That the prompt improvement of our Public Highways is important and should be forwarded in every proper way.

Realizing the transportation congestion crisis, this was one of the most important resolutions passed by the Chamber of Commerce of the United States.

Motor trucks are ready at hand; the roads of the nation must be immediately developed and improved.

A Federal Highway Board is urgently needed.

This resolution deserves wide publicity—and to help we are publishing it throughout the country in place of our scheduled advertisements.

THE AUTOCAR COMPANY, Ardmore, Penna.

Philadelphia, Market and 23rd Sts.

A. B. SEE ELECTRIC ELEVATOR CO.

507-8 Colonial Trust Building, Philadelphia

**ELECTRIC ELEVATORS OF HIGHEST
EFFICIENCY FOR EVERY SERVICE.**

LET US SHOW YOU.

Both Phones

CONVENIENCES IN POPULAR DEMAND

Prospective tenants and buyers want to know how they are going to keep warm in the chilly mornings and evenings of the early Fall and late Spring, when it isn't practical to have the furnace going.

If you can point to a Baseboard Gas Outlet in each room to which Gas Heating Stoves can be readily connected your Prospect is then assured of a quick, clean and economical method of getting the desired auxiliary heat.

'Phone or write to the Builders' and Operators' Division.

134-42 North 13th Street

Bell, Locust 1300—'PHONES—Keystone, Race 30

The United Gas Improvement Co.

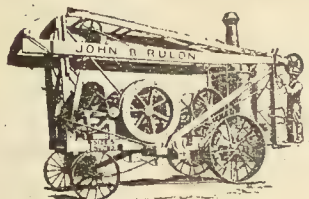
BUILDERS

Before your present company has a chance to say "No," ask me about placing your surety bonds. I'll give you the best of service, relieve you of all details, insure your getting lowest rates and protect you in every way. Get REAL SERVICE.

HARRIS J. LATTA

Pennsylvania Building

ARTESIAN WELLS DRILLED



**Test Borings
Soundings**

JOHN B. RULON
1355 Colwyn Street
Philadelphia, Pa.

Staman & Dickey Co.

Lighting Fixtures

30 South Sixteenth Street
Philadelphia

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage and Sales Building, 3017-23 North Broad street, Philadelphia, \$60,000. Architect, private plans. Owner, R. Stein, 1821 W. Butler street, Philadelphia. Brick and reinforced concrete, 2 stories, 84x98 feet, slag roof, steam heating, electric lighting, concrete floors, hollow tile, elevators, hollow metal sash, fire and kalamein doors, iron stairs, damp-proofing. Contract awarded to A. Hartman, 906 Liberty Building, Philadelphia.

Residence, Wigard street and Ridge avenue, Philadelphia, \$10,000. Architect, private plans. Owner, Chas. Cleres, 1912 North Twenty-third street, Philadelphia. Stone, 2 stories, 37x52 feet, slate roof, hot water heating, electric lighting, tile work, hardwood floors. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Machine Shop, Fifty-sixth and Grays avenue, Philadelphia, \$10,000. Architect, private plans. Owners, Maris Bros., on premises. Brick (slow burning), 2 stories, 30x90 feet, slag roof, maple floors, ornamental iron work (heating and lighting reserved). Contract awarded to Thos. C. Trafford, 1613 Sansom st., Philadelphia.

Brass Foundry (add.), Adams and Thompson streets. Architect, private plans. Owners, Wm. Cramp Ship & Engine Building Co., Richmond and Norris streets, Philadelphia. Brick, concrete and steel, 1 story, 220x143 feet, asbestos roof, electric lighting, steam heating (extension), rolled steel sash. Contract awarded to Hoffman Eng. & Const. Co., Pennsylvania Building.

Residence (alts. to Machine Shop), 1304 Callowhill street, \$2,500. Architect, I. W. Levin, 2434 South Eighth street, Philadelphia. Owner's name withheld. Brick, 2 stories, consists of reinforcing beams, new floors, new front, plastering, cement work, painting, glazing. Contract awarded to N. Litman, 2030 S. Fifth street, Philadelphia.

Hotel (alts. and add.), 514 South Fifteenth street, Philadelphia. Architect, H. E. De Hoff, 48 South Sixty-first street, Philadelphia. Owner, Road Side Inn, 514 South Fifteenth street, Philadelphia. Brick, 2 stories, 16x28 feet, slag roof, heating and lighting extension, pine floors, cement work. Contract awarded to J. F. Trent, 2041 Master street, Philadelphia.

PENNSYLVANIA

Construction News

Houses (40), Allentown, Pa. Architect, private plans. Owners, Allentown Home Building and Renting Association, care of Matrin Strauss, president, Allentown, Pa. Brick, 2 stories, 14x40 feet. Plans in progress.

Women's Welfare Building, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem. Frame, 1 story, 60x65 feet, J-M Reigel roof, steam heating, electric lighting, pine floors. Owners ready for bids.

Residences (3), Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, R. H. Rathbun, Bethlehem, Pa. Brick, 2½ stories, 53x61 feet, slate roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans completed. Owner will build.

Residence (6), Bethlehem, Pa. Architect, A. W. Leh, South Bethlehem, Pa. Owner, Geo. Merdinger, South Bethlehem, Pa. Brick, 2 stories, 15x42 feet, slag roof, pine floors, hot

air heating, electric lighting. Plans completed. Owner will build.

Stores and Apartments, Allentown, Pa. Architect, Tilghman H. Moyer, Allentown, Pa. Owners, Erdman Bros., Allentown, Pa. Brick, 3 stories, 21x108 feet, slag roof, city steam heating, electric lighting, pine floors. Architect is sub-letting.

Signal Tower, Battery House and (2) Signal Bridges, Norristown, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading R.R. Co., Twelfth and Market streets, Philadelphia. Brick, 2 stories, 15x26 feet, and 1 story, 18x34 feet, asbestos shingle roof and slag roof, electric lighting, fire doors, cement floors, ornamental iron work (heating and bridges reserved by owners). Owners taking bids, due December 13th. F. W. Van Loon, Denckla Building; A. L. Carhart, Hale Building; J. Sims Wilson Co., 1125 Brown street; F. A. Havens & Co., 845 North Nineteenth street; Mitchell Bros., 2125

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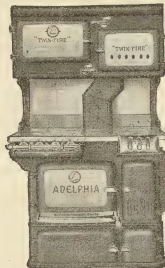
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Race street; H. E. Baton, 1713 Sansom street, the Hogg Const. Co., 1634 Sansom street; Thos. C. Trafford, 1613 Sansom street, of Philadelphia, and Wilbur Beaumont, of Atlantic City, N. J., are figuring.

Residence and Garage, Elkins Park, Pa. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Gustav A. F. Gentzsch, southwest corner Fifteenth and Wallace streets. Hollow tile, 1½ stories, 50 x70 feet, shingle roof, vapor heating, electric lighting, hardwood floors. Architects taking bids, due December 15th. W. John Stevens, Inc., Wyncoote, Pa.; Hughes-Foulkrod Co., Commonwealth Building; Freund Const. Co., Bulletin Building; F. B. Davis, 240 North Sixteenth street; Stacy Reeves & Sons, 2011 Market street; Specht & Sperry, Heed Building, are figuring.

School, Chadds Ford, Pa. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, Board of Education of East Bradford Township, Sellers Hoffman, chairman building committee, Chadds Ford, Pa. Brick and stone, 2 stories and basement, 85x150 feet, slag roof. Plans in progress.

Girls High School, Harrisburg, Pa., \$400,000. Architect, Verus T. Ritter, North American Building, Philadelphia. Owners, School Board, Harrisburg, Pa. Brick and stone. Preliminary plans in progress. Too early for details.

Residence and Garage (alt. and add.), and Entrance Gates, Merion, Pa. Architects, Seeburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone and timber, 2½ stories, shingle roof, hot water heating, electric lighting, tile and marble work, hardwood floors, cement work. Plans in progress. Architects taking bids, due December 15th. The following are figuring: E. J. Hadden, Finance Building; Albert Zellfelder, 151 South Broad street; J. Sims Wilson Co., 1125 Brown street; Chas. C. Pace, Merion, Pa., and J. Howard Roberts, Lansdowne, Pa.

Factory (alt. and add.), Mohnton, Pa. Architect, C. J. Young, Reading, Pa. Owner, W. G. Lehniger, Mohnton, Pa. Brick, 2 stories, 100x100 feet, slag roof, maple floors, metal lath, electric lighting, hollow metal skylights, fire doors, elevators, roof ventilators (sprinklers reserved). Plans in progress.

Warehouse, Linfield, Pa. Architect, Arthur Kepner, 121 North Hanover street, Pottstown,

Pa. Owners, Sanitary Co. of America, Linfield, Pa. Brick, 3 stories, 42x162 feet, slag roof, pine floors, steam heating, electric lighting, rolled steel sash and skylights, fire doors, metal lath, 3-ton elevators. Plans in progress.

Residence and Garage, Elkins Park, Pa. Architects, Andrew J. Sauer & Co., 908 Chestnut street, Philadelphia. Owner, Gustav A. F. Gentzsch, southwest corner Fifteenth and Wallace streets. Hollow tile, 1½ stories, 50x70 feet, shingle roof, vapor heating, electric lighting, hardwood floors. Architects taking bids, due December 15th. W. John Stevens, Inc., Wyncoote, Pa.; Hughes-Foulkrod Co., Commonwealth Building; Freund Const. Co., Bulletin Building; F. B. Davis, 240 North Sixteenth street; Stacy Reeves & Sons, 2011 Market street; Specht & Sperry, Heed Building, are figuring.

Residence and Garage, City Line and Limekiln Pike, Montgomery County, Pa. Architect, E. Allen Wilson, 108 Chestnut street, Philadelphia. Owners, Model Building Co., Morris Building, Philadelphia. Stone, frame and plaster, 2½ stories (9 rooms), shingle roof, hot water heating, combination lighting, hardwood floors, tile and marble work. Garage, 1 story, 15x20 feet, shingle roof, cement floors, artesian wells. Plans completed. Owners ready for sub-bids December 12th.

Residence, Pottstown, Pa. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, E. D. Gudebold, Pottstown, Pa. Stone or stucco, 2½ stories. Plans in progress. Too early for details.

Store Building (alts.), Fifth and Market streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Simon Bruner, Chester, Pa. Brick and terra cotta, 1 story, 40x70 feet, slag roof, hot water heating, combination lighting, tile and marble work, hollow metal skylights, metal bulks, pine floors, plastering. Plans about

completed. Owner will take sub-bids in two weeks.

Residence (alts. and add.), Ardmore, Pa. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, Dr. S. D. W. Luddum, Glawyn, Pa. Stone, 3 stories, 40 feet, and 2½ stories, 15x28 feet and 22x40 feet, slate or shingle roof. Plans in progress. Too early for details.

Residences (2), Limekiln Pike, near City Line, Montgomery County, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Model Building Co., Morris Building, Philadelphia. Stone, 3 stories, 27x54 feet, shingle or slate roofs, hot water heating, electric lighting, hardwood floors, tile work. Plans completed. Owners ready for sub-bids December 12th.

Chief Gunners' Quarters, No. 2722, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, care of A. L. Parson, Acting Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Brick and frame, 2 stories, 36x30 feet, asbestos shingle roof, hot water heating, electric lighting, tile work, maple floors, hollow tile, metal lath, waterproofing. Owners taking bids, due December 17th. Work-Yardley Co., 1737 Filbert street, and F. L. Hoover & Sons, 1023 Cherry street, are figuring.

Naval Magazine, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Asbestos protected metal, 1 story, 25x48 feet and 40x160 feet, composition and slag roof, concrete floors, steam heating, electric lighting, rolled steel sash, waterproofing. Owners have received bids.

Office Building, No. 2725, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, frame and stucco, 1 story, 67x37 feet, asbestos roof, hot water

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heating, electric lighting, maple floors, hollow tile, metal lath, waterproofing, ornamental iron work. Owners have received bids.

Marine Barracks, No. 2717, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and

Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and stone, 2 stories, 85x125 feet, asbestos roof maple and concrete floors, steam heating, hollow tile, metal lath, waterproofing, ornamental iron work, wire work. Owners have received bids.

PENNSYLVANIA Contracts Awarded

Garage, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem, Pa. Frame, 1 story, 40x30 feet, asbestos shingle roof, pine floors, steam heating, electric lighting. Contract awarded to R. S. Rathbun, Bethlehem, Pa.

Garage, South Bethlehem, Pa. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr. Tobias, P. A., South Bethlehem, Pa. Frame, 1 story, 110x20 feet, asbestos shingle roof, cement floors, steam heating, electric lighting, gasoline storage system. Contract awarded to R. S. Rathbun, Bethlehem, Pa.

Factory and Building (alt.), South Bethlehem, Pa., \$10,000. Architect, private plans. Owners, Bethlehem Steel Co., care of Mr.

Tobias, P. A., South Bethlehem; Pa. Brick, consists of general interior and exterior alterations, 1 story, 120x210 feet, steam heating, electric lighting. Contract awarded to R. S. Rathbun, Bethlehem, Pa.

Residence, Wyomissing, Reading, Pa. Architect, W. D. Lance, Reading, Pa. Owner, H. Guenther, Reading, Pa. Brick and stucco, 2½ stories, 32x30 feet, slate roof, hot water heating, electric lighting, hardwood floors. Contract awarded to William Gaul, Reading, Pa.

Bridge, south of Shuman, on the Catawissa Branch, Long Hollow Viaduct, Pa. Engineer, Samuel T. Wagner, Reading-Terminal, Philadelphia. Owners, Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia. Concrete and steel, 15-foot span, 400 feet long. Contract awarded to Kelly Eng. Corp., Ringtown, Pa.

NEW JERSEY Construction News

School, Waterford Township, Camden Co., N. J. Architect, Arnold H. Moses, 136 South Fourth street, Philadelphia. Owners, School Board of Waterford Township, Camden Co.

J. Brick, 1 story, 24x36 feet, shingle roof, pine floors. Owners taking bids (revised), due December 14th. (Note change in date.) Evans Const. Co., 9 South Eighteenth street, Philadelphia, additional bidder.

Office (add.), Straw Barn and Clay Shed, Muirhead avenue, Trenton, N. J. Architect, J. Osborne Hunt, 114 North Montgomery st., Trenton, N. J. Owners, Greenwood China Co., Trenton, N. J. Brick, 1 story, 30x70 feet, 30x80 feet and 20x100 feet, slag roof, steam heating, electric lighting, wood floors. Plans in progress.

Bank (fire repairs), Hopewell, N. J. Architect, W. W. Slack, St. Regis Building, Trenton, N. J. Owners, First National Bank, Hope-

well, N. J. Brick, 2 stories, 74x48 feet. Architect taking approximate bids.

Garage, Mississippi and Pacific avenues, Atlantic City, N. J., \$20,000. Architect, Bertram Ireland, Atlantic City, N. J. Owner, Joseph Thompson Estate, Atlantic City, N. J. Brick, 1 story, 60x150 feet, slag roof, hot water heating, electric lighting, concrete floors (gasoline storage system reserved). Contract awarded to Hiram Mathis, Atlantic City, N. J.

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 } Additions
Construction } New Buildings

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Foundation Walls to
Interior Trim."

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AWARDING A CONTRACT

Maryland Construction News

Warehouse (alts.), Fifteenth street and M street, Washington, D. C. Architect, private plans. Owners, Quartermaster's Department, on premises. Consists of general interior alterations, elevators, etc. Owners taking bids.

Theatre, Hopewell, Va. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Owner, S. A. Xippas, Hopewell, Va. Brick, 1 story, 20x125 feet, slag roof, electric lighting, concrete work, plastering, metal lath, painting, tile work, plumbing. Plans in progress.

Post Office (alts.), Baltimore, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Brick, electric lighting, concrete work, metal lath, tile work, marble and terrazzo, painting. Owners, care of custodian of Baltimore Post Office, taking bids, due December 18th. The following are figuring: F. Walter Tovell, Eutaw and McCulloh streets; Cowan Building Co., 106 W. Madison street; Fred Decker & Son, 1209 E. Biddle street; Charles Herbold & Sons, 2768 W. North avenue; John J. Hughes, Jr., 104 E. Saratoga street; Singer-Pentz Co., Equitable Building; B. F. Bennett Building Co., 123 S. Howard street; Consolidated Eng. Co., Calvert Building, all of Baltimore, Md.

Bungalows (6), Curtis Bay Terrace, Md. Architects, Sparklin & Childs, Law Building, Baltimore, Md. Owners, Curtis Bay Terrace Co., Inc., Allen Benny, President, Curtis Bay Terrace, Md. Brick and frame, 1½ stories, composition roof. Owners taking sub-bids.

Store and Apartments (add.), 926-28 South Charles street, Baltimore, Md. Architect, J. C. Spedden, 2715 Harlem avenue, Baltimore, Md. Owner, M. Eisen, 928 South Charles st., Baltimore, Md. Consists of 1 and 2 story addition, brick, steam heating, electric lighting, metal ceiling, metal bulks. Architect taking bids. Frank Marion, 4 North Caroline street; Owens & Margolis, 429 South Bond street, and Frank Kreamer, South Sharp street, Baltimore, Md., are figuring.

Garages (4), 2801-7 West Lanvale street, Baltimore, Md., \$4,000. Architect, private plans. Owners, The Schwind Stone Co., 2819

Buy pure lime, 99% pure, no core, no grit. **DAVID FRANCE CO.,**
Tasker Street Wharf, Delaware River, Phila. Both 'phones.

Raynor street, Baltimore, Md. Brick, 2 stories, 13x39 feet, slag roof, concrete floor. Owners taking sub-bids.

Maryland

Contracts Awarded

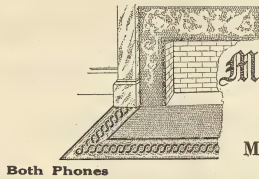
Hospital (alts.), Towson, Md. Architect, Joseph E. Sperry, Calvert Building, Baltimore, Md. Owners, Sheppard & Enoch Pratt Hospital, on premises. Brick and terra cotta, slate roof, electric lighting, tile and marble work, plastering, painting, plumbing, hardware. Contract awarded to G. Walter Tovell, Eutaw and McCulloh street, Baltimore, Md.

Foundry, Charles and Wells streets, Baltimore, Md. Architect, private plans. Owners, P. Kennedy Foundry Co., on premises. Brick and iron, 1 story, 80x80 feet, slate or tin roof, electric lighting, concrete floor. Contract awarded to Frairie Bros. & Haigley, 18 Clay street, Baltimore, Md.

Storage Building, 607-09 South Bethel st., Baltimore, Md. Architect, private plans. Owner, J. G. Lamp, 3406 Park Heights avenue, Baltimore, Md. Brick, 1 story, 37x115 feet, slag roof, electric lighting. Contract awarded to George Kitchen, 3406 Heights street, Baltimore, Md.

Shell Filling Buildings, Edgewood, Harford County, Md. Architect, private plans. Owners, Ordnance Department, United States Government, Captain Chance, Seventeenth and B streets, Washington, D. C. Brick, concrete and frame, asbestos, metal and composition roof, steam heating, electric lighting, hollow metal skylights, rolled steel sash, ventilators, hollow tile, stucco, composition floors. Contract awarded to Central Const. Co., care of J. H. O'Brien, vice-president, 209 Seventh street, N. W., Washington, D. C.

Theatre, Camp Meade, Md., \$50,000. Archi-



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PHILADELPHIA, PENNA.

teet, private plans. Owner, L. F. Allardt, 22 Monroe street, Chicago, Ill. Frame, 1 story, composition roof, steam heating, electric lighting, plumbing, pine floors. Contract awarded to Claiborne-Johnson Co. Garrett Building, Baltimore, Md.

Brewery (add.), Baltimore, Md. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, The Standard Brewery, 1766 North Gay street, Baltimore, Md. Brick and concrete, 3 stories, 30x50 feet, slag roof, cement and maple floors (steam heating and electric work reserved), metal lath, rolled steel sash, fire doors. Contract awarded to Fred Decker & Son, Patterson Park avenue and Gay street, Baltimore, Md.

concrete, 5 stories, 60x34 feet, fifth story addition to present building, 64x52 feet, slag roof, concrete and maple floors, heating extension, electric lighting, hollow metal sash, hollow metal doors, hollow tile, metal lath, roof ventilators, iron stairs, wire work, ornamental iron work. Owners taking bids, due December 15th. Warren-Moore Co., Colonial Trust Building, Philadelphia, is figuring on revised plans.

Range Finding Tower Buildings, Nos. 105 and 112, Washington, D. C. Architect, private plans. Owners, United States Government, A. L. Parson, Acting Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, 5 stories, 34x60 feet, and 6 stories, 64x52 feet, slag roof, steam heating, cement and maple floors, hollow metal sash, hollow metal doors, iron stairs, hollow tile, metal lath, roof ventilators, wire work, ornamental iron work. Owners taking bids, due December 17th. Standard Const. Co., 1713 Sanson street, and Warren-Moore Co., Colonial Trust Building, are figuring.

Miscellaneous Construction News

Seaman Gunners' Quarters, Washington, D. C. Architect, private plans. Owners, U. S. Govt., care of F. R. Harris, Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete, steel, brick and stone, 3 stories, 185x58 feet, slag and asbestos roof, cement, composition and pine floors, steam heating, electric lighting, tile work, hollow tile, safety treads, hollow metal skylights, tile work, metal lath, roof ventilators, waterproofing, ornamental iron work. Owners taking bids, due December 17th. Warren-Moore Co., Colonial Trust Building, Philadelphia, is figuring.

Warehouse, Dover, Del. Architect, W. E. Hance, 204 W. Twenty-fourth street, Wilmington, Del. Owners, F. Romeo & Co., 374 Washington street, New York City. Concrete and steel, 1 story and basement, 40x100 feet, composition roof, cement and hardwood floors, steam heating, electric lighting. Plans completed. Architect ready for bids.

Garage and Stable, Dover, Del. Architects, De Armond, Ashmead & Bickley, 1529 Walnut street, Philadelphia. Owner, Hon. Josiah O. Wolcott, Dupont Building, Wilmington, Del. Brick, 1½ stories, 20x70 feet, shingle roof,

cement floors, hot water heating, electric lighting. Plans completed.

School, Keyser, W. Va. Architect, Paul A. Davis, 3d, 1713 Sanson street, Philadelphia. Owners, University of West Virginia (Keyser Branch), care of State Board of Control, E. B. Stephenson, president, Charlestown, W. Va. Brick, stone and terra cotta, 3 stories and basement, 75x160 feet. Plans about completed. Owners will be ready for bids about January 1st.

Country House (alt. and add.), and Pneumatic Water System, New Paltz, N. Y. Architects, Mills & Van Kirk, Harrison Building, Philadelphia. Owner, name withheld. Consists of extension at both ends of present building, frame, 2½ stories, 20x30 feet and 10x30 feet, shingle roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans about completed. Architect will be ready for sub-bids in about two weeks.

Optical Shop, Navy Yard, Washington, D. C. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, steel and reinforced

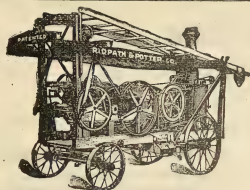
Miscellaneous Contracts Awarded

Residence, Warrenton, Va. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Mrs. F. E. Bowman, Warrenton, Va. Stone, brick and stucco, 2 stories, 98x28 feet, shingle roof, vapor heating, electric lighting, tile work, oak and pine floors, hollow tile, dampproofing. Contract awarded to W. F. Handback, Warrenton, Va.

Residence, Stable, Garage and Farmer's Cottage, Warrenton, Va. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, S. S. Preston, Otis Building, Philadelphia. Stone and brick, 3 stories, 30x64 feet, 1½ stories, 36x44 feet, 1½ stories, 21x34 feet, and 2 stories, 23x37 feet, slate and tin roof, oak, pine and cement floors, vapor heating, electric lighting, tile and marble work. Contract awarded to W. F. Handback, Warrenton, Va.

Bank Building, New Castle, Del. Architect,

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Philadelphia, Penna.

Chas. R. Peddle, 134 South Fourth street, Philadelphia. Owners, New Castle Trust Co., New Castle, Del. Brick, stone, steel and terra cotta, 1½ stories, 24x64 feet, slag roof, concrete, oak and pine floors, electric lighting, tile and marble work, metal lath, waterproofing, wire work. Contract awarded to James H. Wells, Otis Building, Philadelphia.

crete, oak and pine floors, electric lighting, tile and marble work, metal lath, waterproofing, wire work. Contract awarded to James H. Wells, Otis Building, Philadelphia.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Machine Shop, Front and Girard avenue, \$29,000. Espen Lucas Mch. Works (O), on premises. Austin Co. (C), Bulletin Building. Brick, 1 story, 100x260 feet, slag roof.

Garage and Office, Delaware and Shaackmaxon street, \$18,000. Penna. Sugar Co. (O), 1037 N. Delaware avenue. O'Meara Const. Co. (C), 253 S. Quince street. Reinforced concrete, 2 stories, 36x105 feet, slag roof.

Elevated Stations (4), Frankford Station, \$112,000. City of Philadelphia (O), City Hall. Standard Const. Co. (C), 1713 Sansom street. Reinforced concrete, 2 stories, 20x50 feet, slag roof, steam heating.

Garage, Seventeenth and Cambria streets. Electric Service Supplies Co. (O), on premises. John N. Gill Co. (C), Otis Building. Brick, 1 story, 17x31 feet, slag roof.

Shed, Venango and Amber streets, \$6,300. The A. Schoenhut Co. (O), Adams and Sepvira streets. Philip Hainback Co. (O). Lumber, 1 story, 53x112 feet, slag roof.

Garage, B street and Erie avenue, \$640. The Albro Clem Elevator Co. (O), on premises. N. Moister Co. (C), 3931 N. Fifth st. Iron on iron, 1 story, 21x24 feet.

Sheds (4), Fifth and Clearfield streets,

\$4,000. Anderson & Hunacher (O). W. H. Ellis (C), 344 N. Fourth street. Concrete footings and lumber, 76x34 feet each, slag roof.

Sales and Service, 3017-19-21-23 N. Broad street, \$60,000. R. Stein (O), 1821 W. Butler street. A. Hartman (C), 906 Liberty Building. Brick and reinforced concrete, 2 stories, 84x98 feet, slag roof, steam heating.

Garage, 6111 Oxford street, \$800. C. Carry (O), on premises. John S. Walter (C), Beachwood Park, Pa. Brick, 1 story, 16x20 feet, stone foundations.

Garage, 511 North Fourth street, \$450. H. M. Levin (O), 632 North Franklin street. Benj. Titelman (C), 632 N. Franklin street. Brick, 1 story, 9x32 feet, slag roof.

Garage, 5617 Race street, \$500. Louis Rosengarten (O and C), 5623 Race street. Brick, 1 story, 14x60 feet, slag roof.

Garage, Fifty-ninth and Woodland avenue, \$1,200. J. J. McHugh (O and C), 1430 South Penn Square. Brick, 1 story, 32x34 feet, slag roof, stone foundation.

Garage, Fairhill and Godfrey avenue, \$500. C. E. Lloyd, Jr. (O and C), Oak Lane. Brick, 1 story, 16x18 feet, slate roof, stone foundation, stucco finish.

Alterations and Additions

Store and Dwelling, Oriana and Brown sts., \$600. Rev. Newbold (O), 507 Green street. A. Zirmicki (C), 1632 Hunting Park avenue. Brick fence, 40 feet long.

Office, Thirty-fifth and Grays Ferry avenue, \$700. J. A. Clark Iron Foundry (O and C), on premises. Brick, 3 story addition, 12x39 feet.

Garage, rear 1722 Walnut street, \$400. Weightman Est. (O), 1524 Chestnut street. James S. Talley (C), 1931 Market street. New cement floor and alterations.

Dye House, Manayunk, \$9,000. Delane Mills (O), Manayunk. Acme Boiler & Furnace Co. (C), Bourse Building. Brick foundations and partitions for boiler.

Garages (2), 1129 E. Chelton avenue, \$500.

Howard Smith (O and C), on premises. Brick, 1 story, 11x22 feet, slag roof.

Warehouse, 144 E. Allen street, \$50,000. Gorgas Pierre Co. (O), 126 E. Allen street. Turner Concrete Steel Co. (C), 1713 Sansom street. Reinforced concrete, 3 story addition, 156x75 feet, slag roof.

Dwelling, Wigart and Ridge avenue, \$10,000. Chas. Cleres (O), 1912 N. Twenty-third street. C. M. Swartley (C), 6835 Ridge ave. Stone, 2 stories, 37x52 feet, slate roof, hot water heating.

Office, Sargent and Gaul streets, \$500. H. Hittner & Sons (O), on premises. A. Raymond Raff Co. (C), 1633-35 Thompson street. Fire repair and new roof.

Store, 1222 Walnut street, \$500. L. Stecher

(O), 420 Market street. Basch & Co. (C), 1420-36 S. Front street. Alterations. Store and Dwelling, Seventh and Cumberland streets, \$350. M. Hurewitz (O and C), 831 North Sixth street. Alterations.

Packing House, Thirtieth and Race streets, \$4,000. F. G. Vogt Sons, Inc. (O), on premises. Heine Chimney Co. (C), Chicago, Ill. Chimney, 125x5 feet, radical stacks.

Dwelling, 1402 Castle avenue, \$375. Miss Grace (O), on premises. F. J. Mahn (C), 2134 Uber street. Fire repairs.

Store and Dwelling, 3952 North Broad st., \$600. A. E. Krebs (O). John Krebs (C), 3853 Germantown avenue. Brick, 1 story, 10x56 feet, slag roof.

Factory, 429 Moyer street, \$300. National Envelope Co. (O), on premises. Geo. H. Frank (C), 1113 Cherry street. Alterations. Grain Elevator, Clearfield and Broad sts., \$2,200. Penna. R. R. Co. (O), 34 N. Sixteenth street. John Baizley Iron Works (C), 514 S. Delaware avenue. Two iron fire escapes.

Dwelling, 1506 Fine street, \$800. Edw. Hopkinson, agt. (O). The John Baizley Iron Works (C), 514 S. Delaware avenue. Fire escapes.

Dwelling, 325 S. Juniper street, \$350. Leonardo Tontini (O), on premises. Jos. Despotor (C), 4944 W. Thompson street. Alterations.

Shed, 3628 Haverford avenue, \$800. Jos. Kreserman (O and C), on premises. Brick, 1 story, 16x70 feet, slag roof.

Garages, James and Fraley streets, \$1,500. Abrasive Co. (O and C), on premises. Brick, 1 story, 73x22 feet, slag roof.

Dwelling, 431 W. Price street, \$750. N. P. Miller (O), on premises. John Schuster (C), 3552 North Fifteenth street. Fire repairs.

Shop Building, Torresdale and Orchard sts., \$5,000. Pechin Belting Co. (O), on premises. Domnick Bros. (C), 510 Christian st. Brick, 1 story, 100x72 feet, slag roof.

Garages (3), 1001-17-21 N. Sixty-fourth st., \$2,700. Moss & Taylor (O and C), 560 N. Fifty-eighth street. Stone, 1 story, 14x27 feet, slag roof.

Dwelling, Tenth and Bainbridge sts., \$500. B. Pallis (C), Ninth and Bainbridge streets. Frank & Kaiser (C), 1522 South Sixteenth street. Brick, 3 story rear addition, 12x22 feet.

Office, 516 North Fourth street, \$635. United Hebrew Charity (O), on premises. N. Connolly (C), 1905 Ridge avenue. New heating system, steam.

Store Office and Storage Building, 820 N. Broad street, \$12,000. A. S. Logan (O), 247 North Eighteenth street. F. C. Botwright (C), 1709 Kater street. Brick, 2 stories, 20x79 feet, slag roof, maple floors.

Office, 222-24 Walnut street, \$10,000. Mather & Co. (O), 226 Walnut street. A. R. Raff Co. (C), 1620 Thompson street. Brick, 2 story addition, 35x43 feet and 14x25 feet, on building, slag roof.

Shop, 338 N. Randolph street, \$1,200. Lyter Bros. (O), 324 North Fifth street. A. B. Lyter (C), 324 North Fifth street. Brick, 1 story, 32x48 feet, slag roof.

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INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 30th, 1917.—Sealed proposals will be opened in this office at 3 p. m. January 28th, 1918, for the construction of the United States post office at Sunbury, Pennsylvania. Drawings and specifications may be obtained after December 17th, 1917, from the custodian of the site at Sunbury, Pa., or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 1, 1917.—Sealed proposals will be opened in this office at 3 p. m. January 14, 1918, for the construction of the United States post office at Owego, N. Y. Drawings and specifications may be obtained from the custodian of the site at Owego, N. Y., or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

WAGES OF WOODWORKERS IN SWITZERLAND.

In March, 1917, the Woodworkers' Federation of Switzerland undertook a statistical inquiry into the current average wages of woodworkers in the various sections of the federation. The results of this inquiry were published in the official organ of the federation, and show an average wage in 24 principal towns of 13.6 cents per hour.

These wages are in the main those of carpenters and joiners. In a number of towns the inquiry included also special branches of woodworking, and it was found that the average wage of inlaid-floor makers was 19.3 cents in Basel and 22.3 cents in Berne and Zurich; that the average wage of lathers was 17 cents in Berne and 23.3 cents in Zurich, and of upholsterers 16.9 cents in Berne, 16.5 cents in St. Gallen, and 19.1 cents in Zurich. Basket makers and sawyers receive the lowest wages, averaging from 10.2 to 11.8 cents per hour. In the smaller towns the average wages of carpenters and joiners are lower than those shown.

Read "The Guide." Read it all through. Don't let a single item escape your notice. You'll be surprised what a lot of valuable information is crowded into its pages in the course of a year.

BUILDING TRAINING CAMPS IN THREE MONTHS A REMARKABLE FEAT

Patriotic Co-operation of 50,000 Engineers, Architects and Artisans Leads to Unheard-of Accomplishment in American Building

When the French philosopher La Rochefoucauld remarked that "the rust of business is sometimes polished off in a camp" he little suspected how brisk this polishing process would be three centuries later, when a country not then born should come to the aid of his native land.

He no more knew than do many Americans to-day what a task it is to build in three months training camps to care for a million men.

June 15 Congress appropriated \$79,350,525, with which to build thirty-two camps, sixteen of a temporary nature for the National Guard and sixteen more, permanent in character, for the National Army.

Camps Are Practically Completed.

To-day these camps are practically completed. Sixteen army cities have been built, each to accommodate nearly 40,000 men. In the whole United States there are hardly 150 cities larger than these soldier towns, which have sprung up since June.

The story of how it was done is one of patriotic co-operation on the part of some 50,000 engineers, architects, mechanics and builders, who responded to their country's call when an emergency committee of the Council of National Defence pointed out the need. Specialists in all branches of construction hurried to Washington to tender their services to the Government. Many of them came with heavy political backing, anxious to get their share of the \$80,000,000 to be spent. Because of the necessity of quick action, however, the usual procedure of competitive bids was abandoned on the advice of the Council of National Defence. Sixteen of the most reputable construction companies in the country were selected, each to build a camp in the section where most of its usual work was done.

Let on Basis of Fees.

Contracts were let on the basis of fees, assuring the highest grade of work and preventing extravagance and excessive profits. Where the cost of a cantonment exceeds \$3,500,000 a fee of 6 per cent. is given, from which the contractor must pay his own overhead charges, which usually eat up half the fee. A sliding scale was arranged, paying as high as 10 per cent. where the cost of the work is less than \$100,000. In no case can the total fee exceed \$250,000.

Government representatives have access at all times to the accounts of the construction companies. They set certain standards of workmanship which must be attained.

When the construction chiefs arrived early in the summer to begin their work they found,

in some cases, newly vacated farms on which they made use of such buildings as were available. In some instances it was necessary to provide temporary quarters for several thousand workmen. Otherwise transportation had to be arranged for them to near-by cities.

The site chosen for Camp Gordon is thirteen miles east of Atlanta. Since it was impracticable to care for the workmen at camp, the War Department arranged to have them brought from Atlanta in the morning and returned in the evening. The Southern Railway is paid 50 cents a man to haul 6,000 workmen to and from camp daily.

Camp Gordon may be taken as typical of the other fifteen National Army camps. Problems which arose there had to be solved at others also. The work there, as at other cantonments, is now nearly finished.

In charge of building Camp Gordon is Major J. N. Pease, for thirteen years engaged in mill construction until he accepted a commission in the quartermaster's corps. The contractors at work on the camp are responsible to him as representative of the Government.

The total cost of buildings at Camp Gordon, October 30, was \$4,000,000. In addition, plumbing, wiring and heating cost \$1,500,000. Roads, walks, walls, drainage and sewage disposal accounted for \$294,000. The base hospital building cost \$460,000. Ten thousand dollars was paid to build the remount station, bakery and storehouses. The construction of a rifle range required the expenditure of \$50,000 more. Camp Gordon, as it stands to-day, has cost about six and a half million dollars. This is exclusive of the 3,000 acres which the Government has leased for the camp site.

Some idea of the magnitude of a cantonment may be gained from the number of buildings now completed at Camp Gordon. There are 282 barracks, each built to accommodate 200 men, 334 lavatories, ninety-three officers' quarters, nineteen administration buildings, thirty-two stores, seventeen medical buildings, eight warehouses, nineteen guard houses, two quartermasters' offices, one telephone exchange, one post office, two fire stations, thirty-one hose reel houses, three mess halls distinct from company mess rooms, one bakery, five water tanks, five post exchanges, two laundries, twelve double-ward hospitals, two isolation wards, one chapel, one heating plant, eighty-seven stables, fifty wagon sheds, one blacksmith school, four magazines and other buildings, totalling 1,076.

In their construction were used 47,665,168 feet of lumber and 2,665 kegs of nails. More than 5,000 freight cars were necessary to carry the material to camp. Distribution of

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supplies around camp required 360 teams and wagons, sixteen Government trucks, fifteen rented trucks and forty-three motor cars.

As many as ten thousand persons have been engaged in building the cantonment, including superintendents, foremen, carpenters, laborers, time-keepers, water boys, brick ma-

sons, pipe layers, mechanics, concrete finishers, lumber checkers, blacksmiths and linemen.

All these, each doing the work he is best fitted for, have formed the advance guard of the army now in training to crush the Hohenzollerns.—Glendon Allvine, in "New York Tribune."

HOW 100 CONCRETE HOUSES WERE BUILT

The method of building 100 reinforced concrete houses by the Aberthaw Construction Company, of Boston, for the American Steel and Wire Company, at Donora, Pa., is of special interest. The Aberthaw Construction Company has turned its attention to this class of work, and the fruits of its study may be seen in the project now under consideration.

The site of the development is about 40 miles outside of Pittsburgh, and is located on a steep hill above the Monongahela River. The property has been laid out into 156 lots, of which 100 are now being built upon, and the remainder will follow next year. Grading was done and streets laid out by the American Steel and Wire Company concurrently with the house building. The streets will all be paved with concrete, and granolithic sidewalks will be laid.

There are eight different styles of houses being built, containing some four, some five and some six rooms. Of these, a few are being built in pairs with party walls, and the rest are all detached. In addition to the number of rooms given above, each house has a bathroom and full cellar.

The cellars were excavated with a steam shovel, the shovel taking out a strip down each street, and the space between the walls of the houses being backfilled afterwards.

The walls and floors are of reinforced concrete, the cellar walls being 9 inches thick and the walls of first and second stories being 6 inches thick. The buildings were finished at the top with a reinforced concrete cornice in which a gutter was formed, and on top of the concrete ceilings a roof was built up of spruce framing covered with asbestos slate.

The buildings are all equipped with gas furnaces and cooking ranges, wired for electric lights, and each is fitted with both water-closet and lavatory bowl with hot and cold water. The outside walls are covered with stucco.

The forms used are of steel. They consist of 9-inch channels set up vertically and connected together with clips and wedges passed through slotted holes in the flanges of the channels. At the corner of the building a 4x4 steel angle is set up and the forms lined up longitudinally by means of a steel channel used to form a belt course. This not only fastens the forms of the lower floor, but was bolted into the floor reinforcement and re-

mains in place for a support for the second story forms and was only stripped at the last when all the concrete is poured. The steel wall forms also supported the floor forms, arrangements being made by which steel channels were bolted to the inner side of the steel wall forms upon which the floor centering is laid. Steel domes are used for floor forms. Concrete was hoisted by means of a small derrick bolted to the forms themselves and connected with the hoisting engine which operates the mixer. The usual method is to set the forms for one story wall and floor together, and these are poured continuously.

The progress of the job was limited by the setting of the concrete. To form, pour and strip each story takes about seven days. Working at this rate, the house of two floors and cellar is completely concreted in three weeks, and with the twelve sets of forms on the job, twelve houses are concreted in this period. After this the plumbing, heating, plastering, roofing, and finish are done, which take about five weeks more, so that the houses are being completed at the rate of twelve in the first eight weeks and twelve every three weeks thereafter.

Concrete is hoisted in wheel barrows. Each has a hook bolted to the front end and is lifted by the derrick by means of three steel arms with rings on the ends, two of which hitch to the handles and the third into the hook on the barrow, so that it is lifted completely and level onto the floor. The problem of economical placing of the small amounts of concrete in each house took considerable study, and it is believed that the means adopted are about as successful as can be desired.

The steel forms are adaptable for porches and other irregularities in the building and the chimneys, but the cornice is formed up in wood, the only lumber used in the form work.

There was a 'squad boss in charge of the carpenters and helpers working on each house. This boss had four carpenters and four helpers on the smaller houses and as many as seven carpenters and seven helpers on the large double houses. It was found most economical to work the carpenters and helpers in pairs; that is, each carpenter had a helper to assist him in moving forms and on other general work.

The reinforcing steel boss was under the

carpenter foremen. This was found desirable, since the steel had to be erected rapidly whenever the carpenters were ready for it.

A regular planning department laid out progress each day for the next three days and chose the foremen to erect the forms on each house and the concrete gangs poured them.

Three concrete gangs were at work, two concreting walls and floors and the other doing advance work and followup work, such as footings, pavings, porch walls, floors, steps, window sills, chimneys, etc.

The plant on the job consisted of three one-bag gasoline driven mixers, two of which were equipped with side loaders; three circling swinging steel derricks; two gasoline driven hoists. The sand and slag, as well as cement, were delivered to the mixer by means of a truck which brought the material from Aberthaw's unloading yard, located in the yard of the American Steel and Wire Company.

The quantities of concrete per house varied from 145 yards for the largest double house down to 85 for the smaller single houses. This includes all walls and floors, footings, pavings, porches and chimneys. It cost about \$2.25 per yard to place the concrete in the first and second story walls, which are 6-inch walls, and the cost was the same for the floor slabs. The smaller houses have about 15 yards of concrete in the first or second story walls, and six yards of concrete in the first and second floors. The roof, including cornice, has about 10 cubic yards.

Twenty-eight complete houses (counting double houses as one) were completed in 12½ weeks, or at the rate of a house every three days. The number of men on the concrete gang varied from 13 to 15, according to the type of house and amount of concrete to be poured. At any one time there was at work five carpenter gangs erecting forms, two concrete gangs pouring, two stripping gangs stripping forms, one concrete gang on footings, pavings, porch floors, porch steps, etc., one digging gang and one finished carpentry gang doing the furring, roof framing, erecting door and window frames, sash doors, inside and outside trim, stair laying, floors, etc. Concreting basement walls takes about 2½ hours; pouring the floors requires about 1½ hours. Stripping an erecting the basement wall forms on the first story takes 1½ to 2 days. The stripping of the first story walls and erecting the second story and cornice is a slower operation and added from half a day to a day to this. Concreting the walls took about 2½ hours and the roof about the same length of time.

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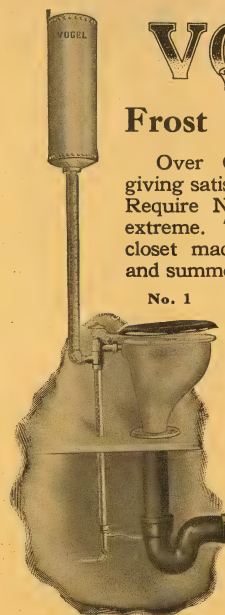
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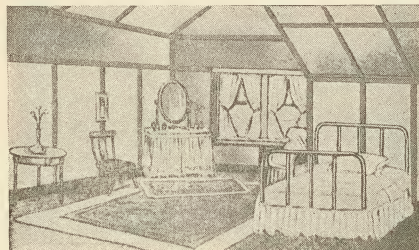
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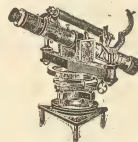
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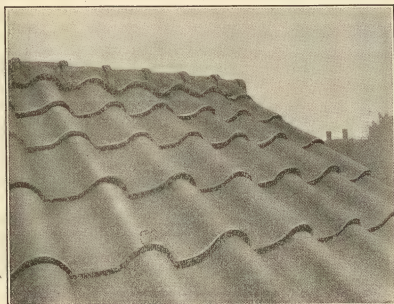
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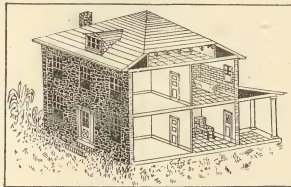


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural
Engineering and the Building Trades

VOLUME XXXII
Number 51

PHILADELPHIA
December 19, 1917

BUILDERS' GUIDE

FORMERLY

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and Builders' Guide
PUBLISHED WEEKLY

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As The Editor Sees It



ON another page of this number of THE GUIDE appears an ordinance of Councils, approved by Mayor Smith under date of November 28, prescribing certain regulations for the use of terra cotta, hollow tile and wooden shingles in building construction within the boundaries of the City of Philadelphia.

This ordinance is one that, we feel, should be carefully looked into by local builders, first, because it establishes regulations with which the trade will find it necessary to become familiar, and second, because it legitimizes, within certain limits, the use of the wooden shingle against which a nation-wide campaign has been waged by fire-prevention experts.

In order that there may be no doubt among local builders, architects, and others at interest, as to the precise nature of the provisions embodied in the new ordinance we have deemed it wise to reproduce it in full. It will be recalled that some months ago an ordinance was slipped through councils sharply limiting the use of the city's highways for the storage of builders' material. THE GUIDE ferreted out this piece of legislation and acquainted the trade with the drastic character of its provisions with the result that the Master Builders' Exchange at once appointed a committee to wait upon Mayor Smith, which committee was able to bring about a considerable modification in its requirements. In connection with the present ordinance we

want to say that we shall be glad to find space for such discussion of the merits or demerits of the new regulations as our readers may care to contribute. The subject should be one of the widest trade interest and is here brought to trade attention in the hope that the fullest discussion will ensue touching every phase of the subject.

TO its many friends and well-wishers, to its subscribers, advertisers and readers, THE GUIDE begs to extend the season's greetings. We trust that, notwithstanding the widespread depression that has manifested itself in many branches of the building trades, there will be found a way whereby all may participate in a Merry Christmas and have cause to look upon the year which lies just ahead as a happy and prosperous New Year. While it would be absurd to attempt to gainsay the fact that the construction interests of the country have been among the chief sufferers of the changed and unusual conditions proceeding out of the war and our immersion therein one does not need to be a confirmed optimist to perceive that there are evidences here and there of a righting-to process that should, within the next few months, work conditions back to nearly normal, if not normal standards. It is coming to be somewhat generally recognized that the "drop all business for the duration of the war" theory is one that has its root in a rather woody order of economics. As we have

taken the trouble to point out in a number of references to the subject upon this page it is of the most vital importance that organization at the front be buttressed and supported by industrial organization here at the base of supplies. To keep the nation keyed up to the pitch of efficiency necessary to win the stupendous affair upon which we are now engaged there must be as little disturbance of normal economic standards as a prudent and energetic prosecution of our part in the actual conflict will permit. Reduced to clear, uninvolved statement this means "Business as Usual." Those crack-brained and excitable persons who were heard demanding, a few months back that all business stop, all industry cease and everybody turn soldier, have been relegated to the rear. With an increasing knowledge of the blunders through which England passed in the first year of her sudden propulsion into the new and unaccustomed responsibilities we are coming to a recognition of the importance of avoiding any widespread disorganization of our normal industries.

WHILE building may not by reason of labor and other difficulties, be as extensive as in time of peace there can be no reason for doubting that new construction will find a way to keep pace with current demands. The demand for housing, particularly, is one that must be met. Little by little the panicky feel-

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ing observable in the first few months of our participation in the war is giving away to a feeling that despite changed conditions there is still a reasonable opportunity to do business for the man who does not lack confidence. There still remains to be done a vast amount of new building incident to industrial expansion. Governmental construction is by no means at the end of its maximum of requirement. Housing problems will demand thousands of new structures in various sections of the country. Investors are gradually awakening to the great truth that construction done at the present price levels is not doomed to a ruinous depreciating slump following the war for the very convincing reason that price levels will not slump with the return of peace and will in all human probabilities never get back to ante-bellum standards.

The fact that America will be called upon to rebuild the desolated areas of Europe should make it plain even to the doubting Thomas, that neither labor nor materials will decrease notably in cost for years following the restoration of peace.

* * *

I AM in receipt from the Erickson Agency of New York City, of a strikingly effective advertising folder rehearsing the advantages of the Barrett Specification Roof with special reference to its adaptability to great, modern, industrial plants. The inspiration for the folder had its rise in the roofing, under the Barratt guarantee, of the largest dye plant in America, the plant of the National Aniline and Chemical Company, Inc., at Buffalo, N. Y.

Two hundred and one thousand three hundred square feet of the Barrett roofing were required to do the work, which was done by the Jameson roofing company under contract with the John W. Cowper company, engineers and contractors, and covered by a 20 year guaranty bond by the Barrett Company. The folder is 10 x 12 in size, of four pages, is most tastefully done in blue and white on a gray background and is a wonderfully fetching bit of shrewdly-planned advertising. One entire page is given over to the reproduction in fac-simile of a letter from the engineer and contractor complimenting the Barrett Company on the excellence of its material, workmanship and service; the entire inside field of the folder, 20 x 24, to a splendid wash-drawing of the big dye plant and a deftly-conceived statement of the meaning of the term "Barrett Specification." The Barrett Company is to be felicitated upon issuing, at a time when the building trades are in a condition bordering on blue funk, so tonic and stimulating a sample of live-wire publicity.

THE Philadelphia Chamber of Commerce conceived the happy idea, recently, of setting afoot an inquiry, the end of which was to ascertain definitely, just how many empty or unoccupied houses were to be found in Philadelphia. As a result of this inquiry we are able to state that Philadelphia is up against an absolute scarcity of housing accommodations, the number of unoccupied houses being the smallest ever recorded in the history of the local real estate field.

That, however, was not what we started to touch upon. Following the Chamber of Commerce inquiry, the *Atlantic City Gazette-Review* printed an editorial on the subject in which it made the statement that of the several thousand houses reported as available, under that inquiry, not more than a dozen could properly be regarded as tenantable from the viewpoint of modern living standards. They lacked sanitary equipment, lacked modern conveniences of living, were in bad repair, lacked paint, paper, good roofing, heating equipment, lighting and ventilation. If this statement is correct, and we have not the slightest doubt that it is, there are some very short-sighted realty owners at large in this much-boasted city of homes. There is something depressing in the thought that in an age of general enlightenment there can exist men who will deliberately permit property to go to wreck and ruin, depreciate in value and contribute to the depreciation of adjacent values, for want of the systematic outlay of a fixed annual sum on needed repairs. Probably three-fifths of the unoccupied real estate in Philadelphia could be made profitable and measurably enhanced in value by remodeling and judicious renovation. There ought to be a way legally to compel the man who owns real estate to keep it in a condition rendering it not merely habitable, but up to the standard of surrounding property.

* * *

AT the recent meeting of the Ohio Builders' Supply Association, Ralph P. Stoddard made the builders present sit up and take notice by directing attention to the status of building construction among American industries.

"People outside of the building business," said Mr. Stoddard, "have not awakened to the fact that building construction is about the biggest single industry in the United States. It is stated that one-eighth of all the people in the country are in some way connected with the building industry. In volume it is second to railroading. In 1916 there was reported from 24 cities \$660,000,000 in new construction. This does not include the other millions spent in smaller towns and rural communities where records are

not compiled. Neither does it include the road, bridge, sewer, sidewalk, underground and landscaping work that always go with public improvement."

Has it ever occurred to you to look at the building industry from this particular angle?

NEW BOOKS

"The Kiln Drying of Lumber," a practical and theoretical treatise, by Harry Donald Tiemann, M. E. M. F. J. B. Lippincott Company, publishers, Philadelphia.

The importance of kiln drying, as applied to lumber, is so well understood that this volume by a specialist, in charge of the section of timber physics and kiln drying experiments in the U. S. Forest Service and special lecturer on wood technology at the University of Wisconsin, should meet with a wide demand not only from the lumber trade, but throughout the construction field. Kiln drying not only renders the wood treated more serviceable and adaptable for the purpose for which it is to be used, but it reduces the losses incident to warping, checking, case-hardening and honeycombing that issue from air drying. It reduces also the interest charges, the fire risk, the deterioration from exposure to weather, and makes the wood treated lighter in weight, facilitates handling and shipping. Mr. Tiemann is an admitted authority in his line and has dealt with his subject with a clarity, a thoroughness and a fullness of detail that will commend it to readers seeking expert, first-hand knowledge of the technical and practical side of the seasoning process. The volume is judiciously illustrated, admirably arranged, consists of 280 pages octavo and retails at \$4.00 net.

The man who doesn't advertise because he can't afford to "do it right" will never reach a position of affluence because everything worth while in the world had to have a beginning, and there can be no "get there" for the fellow who fails to make a start.

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

Business is founded on reciprocity and co-operation. Any other plan than this spells bankruptcy. The successful business nowadays has a heart and a soul.

Parties who want milk should not seat themselves on a stool in the middle of the field, in hope that the cow will back up to them. This would be as vain as for a man to step out of his office on Broadway and shoot in the air in the hope of firing into a flock of ducks that might be flying over.

EDITORIAL NOTES

The Chamber of Commerce has set out to consolidate industrial suburbs to the city of Philadelphia. The consolidation will be one of the five aims of the Chamber for 1918. "At the present time," said Alba B. Johnson, president of the Board of Directors, which outlined the year's program, "the need is greater for an enlargement of the city than it was in 1854, when the consolidation went into effect. Conditions have changed greatly, and the port of Philadelphia now extends from the Delaware State line virtually to the north line of the city; indeed, it might even be said to extend up the Delaware River to Bristol. The measure has the approval of the Mayor, the Director of Public Works and the city's bureau of service. To accomplish it will mean the elevation of Philadelphia to its proper position as the second city of the country. The Executive Committee has carefully considered this project and has taken into account the fact that it cannot be done without an extensive educational campaign. It may cost \$10,000 a year to the Chamber of Commerce until it is accomplished.

* * *

Frank Trumbull, chairman of the Railway Executives' Advisory Committee, says the railroad problem will be solved by three things:

1. Broad-visioned national regulation under the control of the Federal Government.
2. Co-operation between the carriers, the employees, the public and the Government in getting a maximum of service—that is, the most economic production of transportation.
3. Adequate rates for service.

* * *

As a site for a large addition, the Ninth National Bank has purchased the property adjoining, at the southwest corner of Front and Norris streets, from Dr. Ralph E. Gettelman, who acquired the property recently from Richard Kelly for \$17,500. The property occupies a lot 24x110, and is assessed at \$20,000. It is a four-story property, and for years was occupied as a store by George Kelly.

* * *

Sheriffs' sales have dropped to 1796 this year, as compared with 2155 in 1916 and 2345 in 1915, according to figures compiled by Henry S. Bissex, real estate clerk of the Sheriff's office. Sheriff's sales are regarded as business barometers, and the falling off in sales is attributed to a demand for properties so that fewer owners have difficulty in meeting the fixed charges.

* * *

Oscar P. Laubscher, formerly with George B. Post & Sons, New York, and D. H. Burnham & Co., Chicago, is now with the Federal Bridge and Structural

Co., Waukesha, Wis., and engaged at Savannah, Ga.

* * *

As a site for an addition, John T. Lewis Brothers' Company has bought from Henry A. Hitner Sons Company a large plat, containing several factory buildings, at the southeast corner of Moyer and Huntingdon streets, subject to an annual ground rent of \$2160. The property, which adjoins that of the grantee, is assessed at \$40,000, and occupies a lot having a frontage of 551 feet on Moyer street by an irregular depth. It includes a one-story office building, one-story warehouse and several metal storage houses.

* * *

It is not an uncommon sight to encounter a house upon rollers in the middle of a street and in the process of being transported to a new location some distance away, but it is seldom that a house is taken to pieces, the parts transported 1850 miles, and once more put together again. This is exactly what has happened, however, with the residence of J. E. Storer, of Los Angeles, Cal. The Storer family recently decided to make its home hereafter in Edmonton, Canada, and for some reason, not generally known to the public, they took their house with them. A corps of workmen was engaged, the house taken down piece by piece, each carefully marked and done up in neat bundles, and loaded upon a steamship for transportation to Vancouver, and thence by rail to Edmonton.

* * *

New Jersey Chapter of the American Institute of Architects has organized for the year 1917-18 by the election of the following officers and directors: President, Gilbert C. Higby; first vice president, Stockton B. Colt; second vice president, Harry T. Stephens; treasurer, John F. Capen; secretary, Hugh Roberts; directors, George W. Von Arx, Cornelius V. R. Bogert, Jordan Green, William A. Tilton, William P. O'Rourke, Clement W. Fairweather, William H. Wolfe, James O. Betelle and J. T. Tubby, Jr.

* * *

Architectural League of New York will hold its annual exhibition of architecture, sculpture, decorative and landscape design in the Fine Arts Building, 214 West Fifty-seventh street, from February 3 to February 23, inclusive. This is practically the most important showing of architectural and allied arts made in this country, and it invariably attracts wide attention and calls out a large attendance of architects, draughtsmen, builders and persons having building projects in mind. The league always has various competitions in hand which serve to stimulate interest. Owing to the fact that the past year has been a dull one in the building line, an effort will be made to give to the coming exhibition an

unusual merit with the idea of creating a renewed interest in building work.

* * *

Carroll E. Welch, architect, Main street, Huntington, L. I., desires samples and catalogues from manufacturers and dealers in building materials and supplies.

* * *

Honorary Membership in The American Society of Mechanical Engineers was conferred Tuesday evening upon Major-General George W. Goethals, whose name will hereafter take its place in the records of the Society with those of Edison, Eiffel, Carnegie and Brashear. In conferring this honor upon Major-General Goethals, the Society recognized his signal achievements as an engineer and as a leader of engineers in work too well known to need description.

* * *

Coin Device & Signal Co., Inc., has recently moved its offices from 1269 Broadway to enlarged quarters in the Printing Crafts Building, 461-479 Eighth avenue, corner Thirty-fourth street.

* * *

Pennsylvania and Atlantic Seaboard Hardware Association and the New York State Retail Hardware Association will hold a joint annual convention and exhibition in New York city, February 12, 13, 14, 15, 1918. Headquarters at the Hotel Astor.

* * *

Albert O. True, sanitary engineer, New York State Department of Architecture, has received a captain's commission in the Engineer Officers' Reserve Corps.

* * *

Upward of one billion dollars is the amount asked of Congress for military construction during the coming year. The gigantic amount of structural work involved by an expenditure of this magnitude is required for facilities to properly handle the greatly enlarged military establishment that the United States will henceforth support, and for additional plant and structures that are absolutely essential to winning the present conflict. The appropriation bill, as presented to Congress, contains provision for almost every conceivable type of building and character of construction that an efficient military and naval organization now demands. The work will be scattered over the entire nation, but with the Coastal States naturally obtaining the major portion of the total. The program involves the erection of hundreds of new buildings for hospitals, barracks, storehouses, etc., the establishment of additional fortifications and army posts; the improvement of existing forts, training stations and bases, and in general is of such a character that will for years to come assure this nation of its place in the front rank of military efficiency. Unquestionably these funds will be forthcoming and the projected work, or at least a large percentage of it, will be started at an early date after the appropriations are granted.

The markets for structural materials and supplies have been generally quiet during the past week, with new business light and inquiries for future requirements few and far between. Prices for materials are holding firmly at the levels that have now maintained for some time and in the majority of lines no substantial fluctuations are at pres-

ent anticipated. According to the present outlook no great volume of activity is expected before the advent of next spring and the current activities of the material manufacturers and dealers are devoted to plans for efficiently handling the greatly increased business that is expected in a few months.

Sec. 7. When the floor or roof load is applied to said bearing or exterior walls in concentrations of two tons or more at one place, a solid pier of brick, reinforced concrete, or concrete filled tile shall be used under each concentration, each of said piers to be not less than twice the thickness of the wall of which it is a part, and no pier shall be loaded in excess of 80 pounds per square inch of its area.

Whenever the floor slab or joists rest on hollow terra cotta wall composed of tile, with voids set vertically, or wherever a change in the thickness of the wall occurs, the course upon which the joists or slabs rest, or upon which the thinner wall rests, shall have the voids in the tiles or blocks in the course so bearing the load completely filled with Portland cement concrete, and so constructed that no joist, timber or other material whatsoever shall bear or transmit a load to the wall without having a bearing plate of iron, first quality hard brick, or terra cotta, or concrete block (filled or solid) under the same at the point where load is transmitted: And further provided, That in no case shall the area of the block to which the load is transmitted be less than double the area of the beam or other material transmitting the load.

Sec. 8. All walls hereinbefore referred to shall be constructed in the following manner: Blocks shall be set only in Portland cement mortar, composed of not less than one part Portland cement and three parts clean, sharp sand. This mortar may be tempered with one part lime paste to eight parts of mortar. Hollow blocks shall be thoroughly bonded one to another, both vertically and longitudinally, and all joints filled with mortar, and when tiles are set in the wall the vertical web of one shall occur as nearly as practically directly over the vertical web of the adjacent tile below. The blocks may be laid with voids horizontal, and with mortar joints between all blocks, or they may be laid with voids vertical, provided all horizontal bearings or joints are reinforced with metal fabric of from one-eighth to one-half inch mesh, capable of holding the mortar. This fabric shall be one-half inch less in width than the width of the wall of the course upon which it is applied, and shall be double lapped at all corners. Such web shall be spread on each horizontal course of the tile before the mortar is put on and shall be completely covered with and embedded in Portland cement mortar as the course of blocks upon it is being laid. No cutting of blocks will be allowed to admit pipes in bearing walls when pipes extend more than one-third of the story in height. The metal fabric hereinbefore specified may be omitted in

NEW BUILDING REGULATIONS ESTABLISHED

Complete Text of An Ordinance Passed by Councils and Approved by the Mayor Setting Up New Regulations Governing the Use of Terra Cotta and Hollow Tile.

The Wooden Shingles Legalized as Roofing on Detached or Semi-Detached Suburban Houses.

In November of the present year an ordinance was put through Philadelphia's Councils establishing regulations for the use in building construction of terra cotta and hollow tile. This ordinance passed both chambers of the councilmanic body and was approved by Mayor Thomas B. Smith under date of November 28. One of the interesting features of the ordinance is a section that aims to legalize the use upon detached and semi-detached houses in suburban sections of wooden shingle roofing. The complete text of the new ordinance is herewith submitted:

AN ORDINANCE TO REGULATE the use of terra-cotta in detached buildings one story in height and in semi-detached and detached dwelling houses and garages three stories and less in height, curtain walls of fireproof buildings, pent houses and bulkheads, and to regulate wooden shingle roofs on semi-detached and detached houses used for dwelling purposes in suburban districts, and providing a penalty for the violation or non-compliance with this ordinance.

Section 1. The Select and Common Councils of the City of Philadelphia do ordain, That hollow tile may be used for the exterior walls of detached buildings one story in height, detached and semi-detached dwellings, stables and garages three stories or less in height, curtain walls of fireproof buildings, pent houses and bulkheads.

Sec. 2. All hollow tile shall be dense terra cotta, free from checks and cracks, laid square and true and burned hard, so as to ring when struck, and not to absorb more than ten per cent. of its own weight in moisture. To have an ultimate crushing strength of not less than 3,000 pounds per square inch of available section of web area, and shall not be loaded when

in the wall to more than eighty pounds per square inch of effective bearing area.

Tiles shall have outer shell or wall not less than seven-eighths inches thick in its least dimension. All interior webs shall be not less than three-fourths inches in thickness. Tiles shall be constructed with at least 50 per cent. solid material.

The Chief of the Bureau of Building Inspection may require a test to be made of such blocks before allowing same to be placed in the wall if in his judgment there be any doubt as to whether such blocks proposed to be used meet the requirements above specified.

Sec. 3. No foundation wall of any building or any party wall to be constructed of hollow terra cotta tile and no hollow tile or terra-cotta wall or partition shall be supported in part or entirely by any wooden or other combustible beam, girder or post.

Sec. 4. Hollow tile exterior walls shall be the same thickness as now required for brick walls and all such exterior walls shall be plastered on the outside three-fourths inches thick with Portland cement mortar.

Sec. 5. Hollow tile may be used for interior partitions in the above-mentioned buildings; however, such partitions shall be at least three inches thick if ten feet in height, four inches thick if ten feet to fifteen feet in height, and at least six inches thick when fifteen feet to twenty feet in height, and when the length of such partition exceeds fifty feet they shall be sufficiently strengthened by cross walls, partitions, piers or buttresses, subject to the approval of the Bureau of Building Inspection.

Sec. 6. All openings over three feet in width in hollow tile walls shall have lintels composed of steel, reinforced concrete, or reinforced tile of sufficient strength to carry the load imposed.

non-bearing or curtain walls or where tile is laid in bearing walls with the voids horizontal.

Sec. 9. Semi-detached and detached dwelling houses having sloping roofs of the gambrel or straight pitch types, erected in suburban districts, may have roofs covered with wooden shingles: Provided, no portion of such roofs, including cornice, shall come within eight feet of the party lines: And provided further, That this section shall not apply to mansard roofs.

Sec. 10. Any person or persons, firms or corporations, whether owner, builder, contractor, architect or workman, who shall violate any of the provisions of this ordinance, and who shall omit, neglect or refuse to comply with said ordinance within thirty (30) days after notice to that effect, shall forfeit and pay for each violation the sum of seventy-five (75) dollars, and the further sum of fifty (50) dollars for every period of one month for which the said person or persons shall omit, neglect or refuse to comply. All the aforesaid penalties to be recovered as penalties of equal amount are, or shall be recoverable in the name and for the use of the City, and, when collected, shall be paid into the treasury thereof.

Sec. 11. All ordinances or parts of ordinances inconsistent herewith or repealed hereby be and the same are hereby repealed.

Approved the 28th day of November, A. D. 1917.

THOMAS B. SMITH,
Mayor of Philadelphia.

No. 699.

GROCERY STORE ARCHITECTURE.

A correspondent of the "Improvement Bulletin" has, perhaps, in the following article, hit upon something that architects should give serious consideration to. An enterprising citizen of a certain Minnesota town has just bought a bank building and announces that he will remodel it into a grocery.

From which naturally arises the question: "Why remodel it?" If the bank is of the solid, substantial type, sometimes designated as "monumental," a type that signifies financial strength, that defies the burglar and impresses the beholder with a sense of impregnability, it should be eminently suitable for the conduct of a grocery business. There are, perhaps, two vaults—one in which the flour and other similar valuables might be preserved, and the other containing safe deposit boxes, which might be appropriately devoted to the safeguarding of sugar, canned vegetables, potatoes, onions and other eatables whose prices have been soaring skyward.

Why not keep the bank fixtures intact? The mahogany desks of the president, vice-president and cashier of the bank might be used to advantage by the similar officers of the gro-

cery company. Why should the patron not be required to make his wants known, through the bronze grill of the teller's window, to the courteous clerk who, sitting in his cage, with a few parsnips, onions, etc., at his side, is prepared to grant the requests or fall who have established their financial responsibility?

Away back in the idyllic days, the grocery was a sort of a community affair. Its wares were displayed to the vulgar gaze on benches in front of the glaring show windows—protected by glass cases only when the health department insisted. The building was of rude construction, with no architectural pretensions, a conglomeration of shelves and counters, boxes and barrels. There was none of the effect of security and impregnability that marked the appearance of a bank. While we all admire notable examples of bank architecture, we do most earnestly hope that the act of the gentleman in the Minnesota town is but a sporadic instance and that he is not setting a precedent in grocery construction.

Purpose produces three distinct things: Courage, Self-Reliance and Concentration. These qualities will equip any man for success. Courage is the disposition of heart that inspires him to attempt great things; Self-Reliance is the temper of mind that makes him believe he can accomplish great things; Concentration is the supremacy of will that causes him to achieve great things. When these three qualities are developed to their utmost and combined in equal proportion, we can call them by one name—genius. Genius is not a freak of natural endowment, but a product of conscious evolution.—Doctor Joseph H. Odell.

Don't crowd your space, Mr. Advertiser. Better play up one selling point at a time than to try to get everything into one ad. and kill every possible chance for display. An ad. should stand out. It should be easily read. It should draw the attention of the reader. A carload of detail can't be crowded into a few inches of space and still retain the quality of sticking out as all good advertising should.

A certain wallboard man advertised in the Guide for awhile and then dropped out. We've had a dozen inquiries since then, asking for his address—every inquiry from a cash buyer. This is a common occurrence. It's hard to make some advertisers see the vital importance of a standing "ad."

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

DUCK SHOOTING and COMMON SENSE

When you buy space you buy it with the expectation of getting a reasonable return on your investment. Sure you do. Now where do you stand the best chance of getting that return—in the daily newspaper, whose circulation is confined largely to people with no interest in your product, or in the trade paper, every copy of which goes to a reader directly interested and likely at any minute to need your goods?

If your hobby is large circulation, you will spend your money in the daily—but before you take this step suppose you pause long enough to figure just what percentage of the immense circulation, for which you will pay a fancy rate, is going to go where there is so much as an off-chance of it doing you any real good. FROM THE ANGLE OF THE MAN WHO HAS BUILDING MATERIAL TO SELL, FULLY NINETY PER CENT. OF THE SWOLLEN CIRCULATION OF THE DAILY NEWSPAPER REPRESENTS WASTED AMMUNITION. It is going to readers who are not interested in building material, and are not likely even in a remote sense ever to build or have building done.

IF YOU WANTED TO SHOOT DUCKS YOU WOULD NOT FIRE PROMISCUOUSLY INTO THE AIR, HOPING THAT BY SHEER LUCK SOME MISGUIDED MALLARD MIGHT ACCIDENTALLY WANDER INTO RANGE. OF COURSE YOU WOULDN'T! YOU'D GO WHERE YOU KNEW DUCKS TO BE, and, sighting a covey of 'em, you'd bang away with both barrels. So it is with advertising.

In the daily you stand an off-chance in a thousand of accidentally hitting the eye of some fellow with an interest in your line. In the trade papers, such as the Guide, you bang into a colony of readers who are interested in building above all other human activities.

The moral is—when you go duck shooting do your shooting where you know the ducks to be!

WHEN YOU WANT TO REACH THE ARCHITECT, THE BUILDER, THE BUILDING OWNER, THE INVESTOR, THE SUB-BIDDER, IN EVERY BRANCH OF THE CONSTRUCTION FIELD, THERE IS BUT ONE PRESERVE IN WHICH TO GUN:

THE BUILDERS' GUIDE

Pennsylvania's Oldest and Only Architectural and Building Publication

Perry Building, Philadelphia.

Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Stores and Apartments, West Philadelphia. Architect, Chas. W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, name withheld. Brick, 3 story, 33x75 feet, slag roof, steam heating, electric lighting, hardwood and pine floors. Plans in progress. Architect will take bids in a few days.

Residences (4), Herbert and Castor streets, Philadelphia, \$16,000. Architect, private plans. Owner, John C. Fotheringham, 3367 Frankford avenue, Philadelphia. Stone, 2 stories, 16x43 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Owner is taking sub-bids.

Residences (2), Lawndale and Bleigh streets, Philadelphia, \$5600. Architect, private plans. Owner, L. Leitenberger, 7345 Oxford avenue, Philadelphia. Brick, 2 stories, 20x32 feet, slag roof, hot-water heating, combination lighting, pine and hardwood floors. Owner taking sub-bids.

Office Building (alt.), Eleventh and Filbert streets, Philadelphia. Architect, private plans. Owner, Bell Telephone Company, Seventeenth and Arch streets, Philadelphia. Steel, fireproof construction, fifth and sixth floor alterations, pine and tile floors, electric lighting, tile and marble work, hollow tile, metal lath, wire work. Owners taking bids, due December 21st. H. H. Burrell, 206 South Quince street; E. R. Hall, 34 South Seventeenth street; and F. L. Hoover & Son, 1023 Cherry street; F. A. Havens & Co., 845 North Nineteenth street, are figuring.

Dwelling, remodeling to synagogue, 2113 South Sixth street, Philadelphia. Architect, Herman H. Kline, Sixth and Mifflin streets, Philadelphia. Owner, Rabbi Moses Schochet, 2132 South Fourth street, Philadelphia. Brick, 3 stories, 17x33 feet, marble front, yellow pine floors, electric lighting, painting. Owner taking bids.

Photographic Studio (alt.), Administration building, emergency building and temporary storage building, Navy Yard, Philadelphia. Architect, private plans. Owners, United States Government, care of R. O'Leary, Pay Inspector, U. S. N., Philadelphia. Frame, 1 story, 18x32 feet, and 1 story, 27x36 feet. Building A, 1 story, 100x600 feet. Building B, 1 story, 70x347 feet. Building C, 1 story, 30x100 feet. Building D, 1 story, 25x115 feet. Ready roofing, roof ventilators (heating and lighting reserved). Low bidders, McCloskey & Bahlis. Total, \$49,513. Studio, \$1630; time, 45 days. Hospital, \$2198; time, 45 days. A, \$36,389; 90 days. B, \$7447; 60 days. C, \$2882; 30 days. D, \$2493; 30 days. Total time, 70 days. Edw. Fay & Son, Total, \$49,970. 90 days. Studio, \$2495; 60 days. Hospital, \$2995; 60 days. A, \$37,389; 90 days. B, \$8498; 60 days. C, \$2898; 30 days. D, \$2347; 30 days. Wills-Ludwick Co. Total, \$50,000. 120 days. A, \$33,300; 45 days. B, \$9293; 30 days. C, \$3515; 30 days. D, \$3495; 30 days.

Elevated Stations (4), Frankford Elevated, Philadelphia. Architects, Department of

City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick, reinforced concrete, stone and terra cotta, 2 stories, tile and slag roof, cement floors, hollow tile, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal sash and doors, fire doors, iron stairs, cement floors, hollow tile, safety treads, roof ventilators, metal ceilings, wire work, ornamental iron work (electric work and plumbing separate bids). Owners taking bids, due December 27th at noon. Ketcham & McQuade, 1029 Brown street; Standard Construction Company, 1713 Sansom street; F. W. Van Loon, Denckla Building, and Mitchell Bros., 2125 Race street, are figuring.

Theatre, Broad and Lombard streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, The Dunbar Amusement Corporation, care of architects. Brick, stone and reinforced concrete, 1 story, basement and gallery, 78x129 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, pine and cement floors, metal lath, fire escapes, ornamental iron work, automatic sprinklers. Architects taking bids due January 2d. Standard Construction Co., 1713 Sansom street; Alex. Chumbley, Twenty-first and Summer streets, Philadelphia, and F. H. Kaiser Co., Pottstown, Pa., are figuring.

Residences (20), West Philadelphia. Architect, Mahlon H. Dickinson, Bellevue Court Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 24x32 feet, slag roof, electric lighting. Plans in progress. Architect will take bids in two weeks.

Residence, Moylan, Pa. Architect, Bart Tourison, Land Title Building, Philadelphia. Owner, Howard W. Underwood, Moylan, Pa. Stone, 2½ stories, 30x50 feet, slate roof, hot-water heating, electric lighting, hardwood floors. Plans in progress.

Residence, Germantown, Pa. Architect, Geo. S. Idell, 34 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 2½ stories, 30x40 feet. Plans in progress. Too early for details.

Stations (4), Torresdale and Kensington avenues and Tioga street and Kensington avenue, Frankford Elevated. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick, concrete and steel, 2 stories, 49x22 feet and 3 stories, 64x30 feet, slag and tile roof, cement floors, electric lighting, tile, marble and terrazzo work, rolled steel sash, hollow metal sash and skylights, fire and hollow metal doors, iron stairs, ornamental ironwork, hollow tile, metal lath, safety treads, roof ventilators, metal ceilings, wire work. Owners taking bids due

December 27th at noon. (Specification report.)

Restaurant and Apartments (alts.), 124 S. Thirteenth street, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner, J. G. Patton, Fifteenth and Chestnut streets, Philadelphia. Consists of general interior alterations, tile and marble work, steam heating, electric lighting, tile and hardwood floors, dumb waiters. Plans in progress. Architects will take bids in about three weeks.

Bank Building (add.), Front and Norris streets, Philadelphia. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owners, Ninth National Bank, Ira W. Barnes, president, on premises. Brick and stone, 20x110 feet. Plans in progress. Too early for details.

Service Building, North Broad street, Philadelphia. Architect, J. Ethan Fieldstein, Hale Building, Philadelphia. Owner's name withheld. Brick, 3 stories, 20x150 feet, slag roof, electric lighting. Plans about completed. Will take bids in a few days.

Store and Apartments (alt. and add.), 219 South Broad street, \$50,000. Architect, Carl P. Berger, 1416 South Penn Square, Philadelphia. Owner, W. E. Adams, on premises. Brick and stone, 4 and 3 stories, 35x133 feet, consists of general alterations and changing upper floors into sleeping apartments. Plans completed. Architect will be ready for bids in a few days.

Pier No. 78, South Wharves, Philadelphia (completion). Architect, private plans. Owners, City of Philadelphia, Department of Wharves, Docks and Ferries, George S. Webster, Director, Bourse Building, Philadelphia. Consists of interior finishing, concrete floors, elevator and general equipment, electric lighting. Owners taking bids, due January 8th, 1918.

Coating Building, Second and Erie avenue, Philadelphia. Architect, private plans. Owners, Thomas Potter Sons & Co., Inc., Second and Erie avenue. Brick, concrete and steel, 1 story. Plans in progress. Too early for details.

It isn't enough to just advertise. There is competition these days in advertising, as in other things. You must make your advertising attractive. You must make it say something—something definite, original and convincing. If you lack faith in your own ability to do this, let us do it for you. Give us the facts. Talk to us just as you would to a prospective buyer. That is the kind of talk that makes profitable advertising. We'll look after the verbal frills. That's our business.

No one suffers from a mean disposition like the fellow who has one.

"TRIDENTS" FOR
WATER OIL,
GASOLINE, BRINE,
ETC., ETC.

"TRIDENT" METERS

MORE TRIDENTS
IN PHILA. THAN
ANY OTHER
MAKE

PHILADELPHIA METER CO., 942 Real Estate Trust Building.

BOTH PHONES

THE
Hogg Construction Co., Inc.
1634 Sansom Street
Philadelphia

BUILDING } Alterations
Construction } Additions
New Buildings

"Personal Attention from
Foundation Walls to
Interior Trim."

GET OUR ESTIMATE BEFORE
AWARDING A CONTRACT

He would save the commission of the architect, but ruin the store.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Barroom (alts.), 1638 Market street, Philadelphia, \$3000. Architect, H. B. Weldon. 1606 Cherry street, Philadelphia. Owner, Joseph Pentony, 2336 Poplar street, Philadelphia. Mill work, electric lighting, tile and marble work, bar fixtures. Contract awarded to Smith-Hardican Co., 1606 Cherry street, Philadelphia.

Engine House and Machine Shop, Erie avenue yard, Philadelphia, \$323,517. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading R. R. Co., Reading Terminal, Philadelphia. Reinforced concrete, steel and brick, 1 story, 16 stalls, 200 feet circumference; machine shop, 1 story, 156x216 feet, J-M roof, cement and pine floors, rolled steel sash and skylights, fire doors, iron stairs, ornamental iron work, hollow tile, roof ventilators, waterproofing, stone foundations, wire work (heating and lighting reserved). Contract awarded to Wm. Steele & Sons Co., 34 South Fifteenth street.

Laboratory, Dispensary and Employment Building, No. 134 A and B, Tacony, Philadelphia, \$30,000. Architect, Thos. B. Lippincott, 1505 Arch street, Philadelphia. Owners, The Tacony Ordnance Corporation, Tacony, Philadelphia. Brick and reinforced concrete, 1 story, 23x76 feet, and 2 stories, 38x35 feet, slag roof, mastic and maple floors, steam heating, electric lighting, hollow metal sash and skylights, fire doors, ornamental iron work, waterproofing. Contract awarded to F. W. Mark Construction Co., Finance Building, Philadelphia.

Store (alts.), S. E. corner Ninth and Walnut streets, Philadelphia. Architect, F. E. Hahn, 1112 Chestnut street, Philadelphia.

Owner, name withheld. Brick, 1 story, 89x29 feet, hardwood floors, electric lighting, tile and marble work. Contract awarded to B. Bernstein, 1500 North Franklin street, Philadelphia.

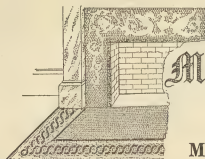
Shop, 734 South Isenminger street, Philadelphia, \$4000. Architect, private plans. Owners, Max Feldman, 733 South Thirteenth street, Philadelphia. Brick, 2 stories, 15x55 feet, slag roof, steam heating. Contract awarded to F. Nardy & Co., 1228 Fitzwater street.

School, Oak Lane, Philadelphia, \$11,500. Architects, Magaziner & Eberhart, 603 Chestnut street, Philadelphia. Owners, Oak Lane Country Day School, Oak Lane, Philadelphia. Frame and stucco, 1 story, 128x32 feet, J-M roof, hot-water heating, electric lighting, cement and pine floors, stone foundations, wire work. Contract awarded to Specht & Sperry, Heed Building, Philadelphia.

Garage, Diamond street and Sedgley avenue, Philadelphia, \$20,000. Architect, private plans. Owner, Columbia Garage Co., 1001 Liberty Building. Concrete, 1 story, 169x80 feet, slag roof, cement floors. Contract awarded to Jos. R. Smith & Co., 3102 Euclid avenue.

Garage, 4348-54 North Seventh street, Philadelphia, \$6,375. Architect, private plans. Owner, John Heniel, 4360 North Sixth street, Philadelphia. Brick, 1 story, 51x70 feet, slag roof, hot water heating, electric lighting, cement floors, stone foundations (gasoline storage system reserved). Contract awarded to G. J. Reich, 1323 Northeast Boulevard, Philadelphia.

Photographic Studio, Navy Yard, Philadelphia.



Both Phones

Italian
Marble Mosaic Co.

LOUIS PASQUALLI, Prop.
Manufacturers and Dealers in

Marble Mosaics, Terrazzo, Tiles and Ceramics
433 Spruce Street, Philadelphia, U. S. A.

Bell Phone: Market 3158

Keystone Phone: Main 174

ROMAN MOSAIC & TILE CO., Inc.

MARBLE MOSAICS, TERRAZZO, CERAMICS, TILES

Office: 435 Green St. Factory: 432 Wallace St.
PHILADELPHIA, PENNA.

phia, \$1,647. Architect, private plans. Owners, U. S. Government, care of C. R. O'Leary, Pay Inspector, U. S. N., Philadelphia. Frame, 1 story, 18x32 feet, Ready roofing, roof ventilators (heating and lighting reserved). Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class. Every copy reaches a live prospect.

We'll write your advertising without charge. All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.

Advertising is nothing more nor less than good salesmanship reduced to print. The business man who can put "sales talk" into type has learned the cardinal principle of good advertising.

HEATING

BOWERS BROS. & CO.

1629 Ludlow Street
Philadelphia, Pa.

A. B. SEE ELECTRIC ELEVATOR CO.

507-S Colonial Trust Building, Philadelphia

ELECTRIC ELEVATORS OF HIGHEST
EFFICIENCY FOR EVERY SERVICE.

LET US SHOW YOU.

Both Phones

CONVENIENCES IN POPULAR DEMAND

Prospective tenants and buyers want to know how they are going to keep warm in the chilly mornings and evenings of the early Fall and late Spring, when it isn't practical to have the furnace going.

If you can point to a Baseboard Gas Outlet in each room to which Gas Heating Stoves can be readily connected your Prospect is then assured of a quick, clean and economical method of getting the desired auxiliary heat.

'Phone or write to the Builders' and Operators' Division.

134-42 North 13th Street

Bell, Locust 1300—PHONES—Keystone, Race 30

The United Gas Improvement Co.

BUILDERS

Before your present company has a chance to say "No," ask me about placing your surety bonds. I'll give you the best of service, relieve you of all details, insure your getting lowest rates and protect you in every way. Get REAL SERVICE.

HARRIS J. LATTA

Pennsylvania Building

ARTESIAN WELLS DRILLED



Test Borings
Soundings

JOHN B. RULON
1355 Colwyn Street
Philadelphia, Pa.

Staman & Dickey Co. Lighting Fixtures

30 South Sixteenth Street
Philadelphia

PENNSYLVANIA

Construction News

Naval Magazine, No. 2716, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Asbestos protected metal, 1 story, 25x48 feet and 40x160 feet, slag and composition roof, concrete floors, steam heat, electric light, rolled steel sash, waterproofing. Lowest bidders: Wm. R. Dougherty, No. 1, \$37,457; No. 2, \$600; No. 3, \$400. Time, 100 days. Wark-Yardley Company, No. 1, \$47,668; No. 2, \$320; No. 3, \$500. Time, 120 days.

Chief Gunners' Quarters No. 2722, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, care of A. L. Parson (Acting Chief), Navy Department, Bureau of Yards and Docks, Washington, D. C. Brick and frame, 2 stories, 36 x30 feet, asbestos shingle roof, hot-water heating, electric lighting, tile work, maple floors, hollow tile, metal lath, waterproofing. Owners have received bids.

Office Building, No. 2725, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick, frame and stucco, 1 story, 67x37 feet, asbestos roof, hot-water heating, electric lighting, maple floors, hollow tile, metal lath, ornamental iron work, wire work. Low bidders: George & Borst, 1, \$16,688, 98 days; 2, \$16,688, 98 days; 3, \$16,985, 98 days. Wm. Linker Co., 1, \$17,000, 140 days; 2, \$17,500, 140 days; 3, \$17,400, 140 days. Wm. R. Dougherty, 1, \$17,186, 100 days; 2, \$17,486, 100 days; 3, \$16,986, 100 days.

Marine Barracks No. 2717, Fort Mifflin, Pa. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Brick and stone, 2 stories, 85x125 feet, asbestos roof, maple and concrete floors, steam heating, hollow tile, metal lath, waterproofing, ornamental iron work, wire work. Low bidders: Dawson Construction Co., May Building, Pittsburgh, Pa., \$66,000, 120 days. Wm. Linker Co., 831 Cherry street, Philadelphia, \$73,300, 250 days.

Residence and Garage (alt. and add.), Linden lane, Merion, Pa. Architects, Seeburger & Kabenold, Pennsylvania Building, Philadelphia. Owner, name withheld. Stone and brick, 2 stories and 3 stories, 9½x15½ feet, shingle and tile roof, cement, oak and pine floors, tile and marble work, metal lath, stone foundations (porte cochere,

heating and lighting reserved). Architects have received bids.

Manual Training School, Richmond Hill, Scranton, Pa. Architect, Fred Nelson, Connell Building, Scranton, Pa. Owner, Johnson School Richmond Hill, Scranton, Pa. Brick, 3 stories, 160x40 feet, slate roof, composition floors, hollow tile, metal lath (steam heating, electric lighting, plumbing reserved), rolled steel sash, fire doors, fire escapes, hollow tile, metal weather strips, waterproofing. Plans completed. Architect ready for bids.

Church and School, Buttonwood, Pa. Architects, P. Morris & MacHale, Burr Building, Scranton, Pa. Owner, St. Francis' R. C. Polish Church, Buttonwood, Pa. Frame, 1 story, 50x110 feet, slag and slate roof, pine floors. Plans completed. Architects taking bids.

Viaduct, Carbondale, Pa., \$150,000. Architect, private plans. Consulting engineers, Peck Bros., Scranton Life Building, Scranton, Pa. Owner, City of Carbondale, Department of Public Works, Carbondale, Pa. Steel, 1000 feet. Plans in progress.

Church and Sunday School Building, Scranton, Pa., \$300,000. Architect not selected. Owner, Rev. Geo. P. Eckman, Scranton, Pa. Work contemplated.

Pier and Bulkhead, No. 2735, Fort Mifflin, Pa., \$300,000. Architect, private plans. Owners, United States Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Timber and wood piles. Owners have received bids.

Passenger Station, Chester Heights, Pa. Architect, private plans. Owners, the P. B. & W. R. R. & P. R. R., care of Mr. Bucklew, Division Engineer, Media Division, Wilmington, Del. Stucco, 1 story, 16x30 feet, Plex shingle and tile roof, wood floors. Owners taking bids due December 20th. H. D. Haddock & Co., Wilmington, Del., are figuring.

Blacksmith Shop, State street, Wilkes-Barre, Pa. Architect, Geo. F. Schroeder, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Peter Frey, State street, Wilkes-Barre, Pa. Brick, 1 story, 40x80 feet, asbestos roof, steam heating, electric lighting, plank floors. Architect has received bids.

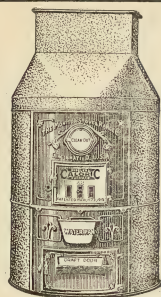
Stores (8) and Apartments (16), corner North Main and East Union streets, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, Wilkes-Barre, Pa. Owner, H. B. Schooley, Wilkes-Barre, Pa. Brick, 3 stories, 128x100 feet, slag roof (steam heating, plumbing, tile work and metal ceilings reserved), elec-

SCALES
AND
VALVES

The Fairbanks Company
Corner 7th and Arch Sts.
Philadelphia, Pa.

Bell Phone, Market 2210 Keystone Phone, Main 1715

WHEELBARROWS
AND
DRAG SCRAPERS



Hundreds of Home Owners and Builders have visited

—The—
Caloric Furnace Demonstration Building
to see
The Original Patented

Caloric Pipeless Furnace

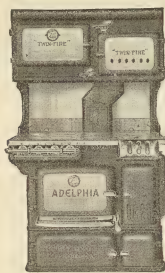
heat the large demonstration house. It will pay you to see The Caloric Pipeless Furnace before building or buying.

Open Every Day
Bell Phone, Spruce 2776

Caloric Pipeless Furnace Co.

1531 Locust Street, Philadelphia, Pa.

Calorics on Hand—Installed in a Day



Isn't it a "Feather in Your Cap" to specify an appliance that **SATISFIES** your client and does justice to your work?

The ADELPHIA Twin Fire Combination Coal and Gas Range

has all the good points of the ordinary coal and gas range and with its three new features is without doubt the finest range of its kind on the market. Requires but 40 inches of space.

Write or phone for circular or representative, or inspect it on our sample floor.

BORDEN STOVE COMPANY

1311 & 1313 Arch Street Philadelphia

SEWAGE PROBLEMS

If you have water or sewage problems to solve in connection with a new residence, country place, farm or institutional building, bring them to us. We plan, design and install every type of private utilities.

HARRISON, MERTZ & EMLIN, Inc.

Formerly HARRISON & SCHREIBER

725-26 Commercial Trust Building, Philadelphia

tric lighting, marble work, hollow metal sash and skylights, fire escapes, iron stairs, pine floors, metal lath. Architects taking bids due December 21st. John Curtis & Co., Walborn & Barney, Wm. J. Kear, Wilson J. Smith, A. D. Thomas and Wm. B. Richards, all of Wilkes-Barre, Pa., are figuring.

Store Building (alt. and add.), 31 South Main street, Wilkes-Barre, Pa. Architects, Knapp & Bosworth, Wilkes-Barre, Pa. Owner, Jos. J. Herwitz Estate, Wilkes-Barre, Pa. Brick, 3 stories, 20x132 feet, slag roof (steam heating, electric work, plumbing and tile work reserved), pine and parquetry floors, marble work, metal bulks. Architects taking bids. Wm. J. Kear, M. L. Roth, Walborn & Barney, Wm. B. Richards and A. D. Thomas, all of Wilkes-Barre, Pa., are figuring.

Home, Ransom, Pa., \$300,000. Architect,

reinforced concrete and steel, 2 stories. Architect selected. Too early for details.

Store (alt.), South Main street, Wilkes-Barre, Pa. Architect, Geo. Schroeder, Wilkes-Barre, Pa. Owners, Blum Brothers, South Main street, Wilkes-Barre, Pa. Consists of general interior and exterior alterations. Architect taking bids. Walborn & Barney, Wilkes-Barre, Pa., are figuring. Owen McGlynn, Wilkes-Barre, Pa. Owner, Ransom Poor Board, Ransom, Pa. Brick,

New Jersey Construction News

School Building, Glassboro, N. J., \$75,000. Architects, Moffett & Stewart, Inc., 30 North Third street, Camden, N. J. Owner, Board of Education, Glassboro, N. J. Brick, stone and reinforced concrete, 2½ stories, 70x140 feet, slag roof (steam heating, electric lighting, plumbing and furniture reserved), rolled steel sash, wood and composition floors, metal lath, safety treads, roof ventilators, fire and kalamine doors, damp-proofing, ornamental iron work. Plans completed. Architect will take bids about December 19th. Metzger & Fisher, Otis Building; Wills-Ludwick Co., 34 S. Seventeenth street; R. C. Ballinger & Co., 218 North Thirteenth street, and Evans Construction Co., 9 South Eighteenth street, all of Philadelphia, and W. Beaumont, 12 South Tennessee avenue, Atlantic City, N. J.; Geo. W. Shaner & Son, Palmyra, N. J.; Geo. Bachman, 19 North Thirtieth street, Camden, N. J., and Frank C. Ware, Glassboro, N. J., will figure.

Sea Wall, near southern boundary of Sandy Hook Reservation, N. J. Architect, private plans. Owner, United States Government, United States Engineer's office, 802 Army Building, 39 Whitehall Building, New York City. Concrete and steel, cement work, consists of repairing and enlarging present sea wall. Owners taking bids, due December 20th.

Manufacturing Buildings, Newark Meadows, N. J., \$2,500,000. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Niles Bement Pond Co. 111 Broadway, New York City. Brick, steel and concrete, 1 story and 2 stories. Preliminary plans in progress.

PENNSYLVANIA

Contracts Awarded

City Hospital, Wilkes-Barre, Pa. Architect, Thos. Podmore, Connell Building, Wilkes-Barre, Pa. Owner, City of Wilkes-Barre, care of Fred Goeringer, Department of Health, Wilkes-Barre, Pa. Brick, 2 stories, 21x31 feet and 1 story, 81x31 feet, slate roof, steam heating, electric lighting, metal lath and sash, cement floors, metal doors, dumb waiters, tile and marble work. Contract awarded to James Monks, Kingston, Pa.

Residence, Merion, Pa., \$19,000. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 35x90 feet, tile roof, hot-water heating, electric lighting, tile work hardwood floors. Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Bridge (alts.), west of Lebanon, on Lebanon Valley Branch. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading R. R. Co., Reading Terminal, Philadelphia. Consists of replacing wooden trestles, concrete

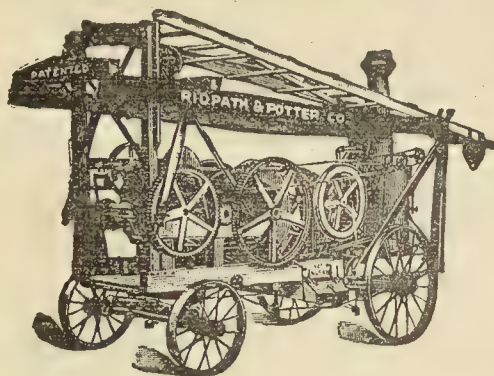
and steel box bridge of 12 foot span. Contract awarded to John H. Wicksham, Lancaster, Pa.

School, Vanley, Pa. Architect, Geo. W. Osterhout, Connell Building, Scranton, Pa. Owner, Board of Education, Vanley, Pa. Brick, 2 stories (10 rooms), slag roof, pine floors (steam heating, electric lighting and plumbing reserved). Contract awarded to John Nolan, Carbondale, Pa.

Naval Magazine, No. 2716, Fort Mifflin, Pa. Architect private plans. Owners, U. S. Government, Bureau of Yards and Docks, Washington, D. C. Asbestos protected metal, 1 story, 25x48 feet and 40x100 feet, composition and slag roof, concrete floors, steam heat, electric lighting, rolled steel sash, waterproofing. Contract awarded to Wark Yardley, 1737 Filbert street, Philadelphia.

A hen is the only kind of a critter that can produce something by sitting down and doing nothing.—Exchange.

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.



We Drill Wells and Get Water Test Borings and Soundings

LET US SUBMIT PRICES

RIDPATH & POTTER CO

487 Bourse Building
Philadelphia, Penna.

NEW JERSEY Contracts Awarded

Machine Shop (extension), Camden, N. J., \$30,000. Architect, private plans. Owners, New York Shipbuilding Co., care of L. G. Buckwalter, P. A., Camden, N. J. Brick and steel, 2 stories, 200x78 feet, asbestos roof, electric lighting, cement floors. Contract awarded to Fraser, Brace & Co., 1328 Broadway, New York City.

Galvanizing Plant, Camden, N. J., \$10,000. Architect, private plans. Owners, New York Shipbuilding Co., care of L. G. Buckwalter, P. A., Camden, N. J. Wire lath and stucco, 1 story, 128x50 feet, asbestos roof, electric lighting, steam heating, cement floors. Contract awarded to J. S. Rogers Co., Moorestown, N. J.

Lunch and Locker Room, Camden, N. J. Architect, private plans. Owners, New York Shipbuilding Co., care of Mr. Morrow, Camden, N. J. Brick, concrete and steel, 2 stories, 120x224 feet, asbestos roof, steam

heating, electric lighting. Contract awarded to J. William Hicks, 1402 West State street, Trenton, N. J.

Factory Building (add.), 507-09 Arch street, Camden, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owners, Camden Auto Radiator Repair Co., on premises. Brick, 2 stories, 75x20 feet, slag roof, electric lighting, wood floors. Contract awarded to Emil Schulte, 1183 Jackson street, Camden, N. J.

Factory (alt. and add.), Delaware avenue and Cooper street, Camden, N. J. Architects, Ballinger & Perrot, Seventeenth and Arch streets, Philadelphia. Owners, The Esterbrook Steel Pen Co., on premises. Concrete and steel, 4 stories, addition, 15x18 feet, Metrop roof, wood floors, rolled steel sash. Contract awarded to Robt. E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Miscellaneous Construction News

Seamen Gunners' Quarters, Washington, D. C., No. 2601. Architect, private plans. Owners, United States Government, care of F. R. Harris, Chief, Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete, steel, brick and stone, 3 stories, 185x58 feet, slag and asbestos roof, cement, composition and pine floors, steam heating, electric lighting, tile work, hollow tile, safety treads, hollow metal skylights, metal lath, roof ventilators, waterproofing, ornamental iron work. Owners have received bids.

Range Finding Tower Buildings, Nos. 105-112, Washington, D. C. Architect, private plans. Owners, United States Government, A. L. Parson (Acting Chief), Navy Department, Bureau of Yards and Docks, Washington, D. C. Reinforced concrete and brick, 5 stories, 34x60 feet, and 6th story, 64x52 feet, slag roof, steam heating, cement and maple floors, hollow metal sash, hollow metal doors, iron stairs, hollow tile, metal lath, roof ventilators, wire work, ornamental iron work. Owners have received bids.

Fire Apparatus House, Building No. 71, and Barracks Nos. 80, 83 and 85, Fort Slocum, N. Y. Architect, private plans. Owners, Quartermaster's Department, U. S. A., Recruit Depot, Fort Slocum, N. Y. Consists of furnishing labor and material for necessary repairs to buildings. Owners,

Capt. H. C. Zimmerman, Q. M. Department, Fort Slocum, N. Y., taking bids due December 20th.

Bungalow, Cragmere, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, David Masters, 2001 Boulevard, Wilmington, Del. Architect taking bids due December 20th. H. D. Haddock & Co., Chas. H. Bryce, Gustav Lysander and Chas. W. Dougherty, all of Wilmington, Del., are figuring.

Residence (alt. and add.), Wilmington, Del. Architect, Leon W. Crawford, Wilmington, Del. Owner, Townsend M. Miller, Wilmington, Del. Brick and stucco, 2½ stories, 6 rooms, shingle roof, hardwood floors, electric lighting, tile and marble work. Architect taking bids. H. D. Haddock & Co., Harry Lunch, H. P. Carlon and Alfred Downward, all of Wilmington, Del., are figuring.

Residence, Cedartown, Ga. Architect, Paul A. Davis, 3rd, 1713 Sansom street, Philadelphia. Owner, Charles Adamson, 4227 Chestnut street, Philadelphia. Frame 3 stories, shingle roof. Plans in progress. Too early for details.

Once-in-a-while advertising is like once-in-a-while eating. Good in its way, but decidedly not nourishing.

Miscellaneous Contracts Awarded

Residence (alt. and add.), 2412 West Seventeenth street, Wilmington, Del. Architects, Brown & Whiteside, duPont Building, Wilmington, Del. Owner, Caleb Stabler, Wilmington, Del. Brick, 3 stories, shingle roof, pine floors. Contract awarded to H. D. Haddock & Co., Wilmington, Del.

Bridge, south of Valley, on Wilmington Branch. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owner, Philadelphia & Reading Railway Co., Reading Terminal, Philadelphia. Reinforced concrete and steel. Contract awarded to O'Rourke & Gorsuch, Law Building, Baltimore, Md.

Maryland Contracts Awarded

Store (alt.), 266 South Hanover street, Baltimore, Md. Architect, Benj. Frank, 328 N. Charles street, Baltimore, Md. Owner, Wm. Deiches, 115 South Eutaw street Baltimore, Md. Metal bulks, steam heating, electric lighting. Contract awarded to Clarence E. Stubbs, Equitable Building, Baltimore, Md.

Building (alts.), 133 West Mt. Royal ave., Baltimore, Md. Architect, T. Wells Pietsch, American Building, Baltimore, Md. Owners, Seaboard Tire and Rubber Co., on premises. Consists of general interior alterations to upper three floors into apartments, hot water heating, electric lighting, plumbing, plastering, painting. J. S. Busick, 2811 Raynor avenue, Baltimore, Md., will sub-let.

Custom House (alts.), Baltimore, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, care of custodian of site, Baltimore, Md. Consists of new doorway, interior alterations painting. Contract awarded to Ruse & Co., 808 Low street, Baltimore, Md.

Dwellings (6), Greenmount avenue and Bretton Place, Baltimore, \$20,000. Architect, E. L. Palmer, 519 North Charles street, Baltimore, Md. Owner H. Webster Cooke, on premises. Brick (2) 3 stories and (4) 2 stories, slag roof, hot water heating, electric lighting. Owner will sub-let.

Hospital Buildings (18), Fort McHenry, Md., \$300,000. Architect, private plans. Owners, U. S. Government, War Department, Washington, D. C. Frame, 1 story, electric lighting, ready roofing, concrete foundations. Contract awarded to J. Henry Miller, Inc., Baltimore, Md.

Sheds (2), southeast corner of Cross street and Key Highway, Baltimore, Md. Architect, private plans. Owners, Baltimore Dry Docks and Ship Building Co., Baltimore, Md. Steel, 1 story, 20x30 feet and 12x18 feet. Contract awarded to Trussed Concrete Steel Co., Munsey Building, Baltimore, Md.

Warehouse, 1603-09 East Fairmount avenue, Baltimore, Md. Architects, Callis & Callis, 2056 Kennedy avenue, Baltimore, Md. Owner, Abraham Brownstein, on premises. Brick, 2 stories, 73x135 feet, slag roof. Contract awarded to I. Silberstein, 607 Equitable Building, Baltimore, Md.

Philadelphia is one of the busiest building centers in the United States and "The Guide" is the only medium that touches this golden field.

Buy pure lime, 99% pure, no core, no grit. **DAVID FRANCE CO.**,
Tasker Street Wharf. Delaware River, Phila. Both 'phones.

Advertising is the proper education of the public as to where the thing can be found, and therefore it is a necessity.

We are parts and particles of each other, but a little of the kindly glue of human brotherhood is needed to fasten us together. The policeman who keeps the crossing clear, and at the same time informs us as to the location of the post office and the First National Bank, no doubt is, in one sense, an economic waste. On the other hand, he is an economic necessity. He is a necessary middleman.

He relieves the congestion of traffic and granting the hypothesis that he does not misdirect us as to the location of the post office, he speeds us on our way.

Advertising is telling who you are, where you are, and what you have to offer the world in the way of service or commodity.

If nobody knows who you are, or what you have to offer, you do no business, and the world is the loser through giving you absent treatment.

Life is too short for the consumer to employ detectives to ferret out merchants who have the necessities of life to sell.



It's the Long Fire Travel in the Burnham Cosy Comfort Boiler That Makes the Short Coal Bill

IF you can keep the hot gases and smoke travelling back and forth inside a boiler long enough to extract the bulk of their heat, and still not make the draft sluggish; it's plain enough that less heat will go up chimney and more heat go into your radiators.

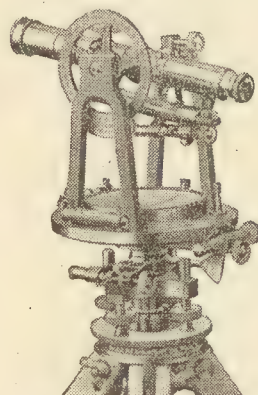
That back and forth action is what we call fire travel. It's this long fire travel in the BURNHAM Cosy Comfort Boilers that has a lot to do with making their short coal bills.

Our Engineering Department is at your service in solving Heating Problems

KEYSTONE SUPPLY & MFG. COMPANY

Plumbing and Heating Supplies

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DO YOU REALIZE

the importance of having a thoroughly up-to-date and reliable *Transit* or *Level* to protect you against costly errors in determining grades, elevations, etc.?

Ask to see our

"Sterling" Transit Model No. 30

designed to meet the exact requirements of your work.

You will then understand why progressive Engineers and Building Contractors invariably select "Sterling" instruments for the big jobs.

We
repair
Transits
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WARREN-KNIGHT CO.

FACTORY AND SALESROOM

136 N. 12th Street

PHILADELPHIA

Rebuilt
Instruments
For Sale
or Rent

Permits for New Buildings

O is the abbreviation for owner. **C** is for contractor.

Philadelphia

Dwelling, 562-64 East Monastery avenue, \$6000. John J. Hurley (O and C), 4416 Cresson street. Stone and brick, 2 stories, 15x54 feet, tin and slag roof, hot-water heating.

Brass Foundry, Richmond and Norris streets, \$40,000. Wm. Cramp & Son Ship & Engine Building Co. (O). Hoffman Engineering Co. (C), Penn Building. Brick and iron, 1 story, 140x220 feet.

Laboratory and Dispensary, Milnor and Bleigh streets, \$27,000. Tacony Ordnance Co. (O), Tacony, Pa. F. W. Mark Construction Co. (C), 1702 Finance Building. Brick, 1 story, 76x33 feet, slag roof; brick, 2 stories, 37x23 feet, slag roof.

Store Power House, Bleigh and Milnor streets, \$12,000. Tacony Ordnance Co. (O), Tacony, Pa. Barclay White Co. (C), 1713 Sansom street. Frame, 1 story, 30x50 feet, slag roof; Brick, 1 story, 45x48 feet, slag roof.

Garage, 2121 West Venango street, \$600. A. O. Micheme (O), on premises. Geo. Gemundey (C), 1644 North Perth street. Brick, 1 story, 12x20 feet, slag roof.

Machine Shop, Fifty-sixth street and Gray's avenue, \$9000. Maris Bros. (O), on premises. Thos. C. Trafford (C), 1613 Sansom street. Brick and iron on iron, 2 stories, 72x26 feet, slag roof.

Dwellings (2), Lawndale and Bleigh streets, \$5600. L. Leitenberger (O and C), 7345 Oxford avenue. Brick, 2 stories, 20x26 feet, slag roof, hot-water heating.

Garage, Freeland avenue and Walnut

lane, \$500. A. Flanagan Bro. (O), on premises. Wm. H. Eddleman & Sons (C), 453 Green lane. Brick, 1 story, 20x6 feet, slag roof.

Shop, 734 South Iseninger street, \$4000. Max Feldman (O), 733 South Thirteenth street. F. Nardy & Co. (C), 1228 Fitzwater street. Brick, 2 stories, 15x55 feet, slag roof, steam heating.

Power House, Eighty-first street and Island road, \$10,000. Wallace & Co. (O), 121 Chestnut street. H. E. Baton (C), 1713 Sansom street. Brick, 1 story, 28x95 feet, fire-proof roof.

Machine Shop, Valetta and Coral streets, \$15,000. Hulton P. P. & Dyeing Co. (O), 3851 Frankford avenue. F. Crompton & Bro. (C), 4614 Oakland street. Brick, 1 story, 140x68 feet, steel columns and beams.

Garage, 1213 Brown street, \$800. Roff Werner (O), 812 North Twelfth street. Warren Ironi (C), Riverton, N. J. Brick, 1 story, 17x50 feet, stone foundations, slag roof.

Dwellings (4), Herbert and Castor streets, \$16,000. John Fotheringham (O and C), 3367 Frankford avenue. Stone, 2 stories, 16x43 feet, slate roof, hot-water heating.

Factory, McKean and Swanson streets, \$2000. E. F. Drus Co. (O), on premises. John C. Hausman (C), 115 Tasker street. Steel frame, 1 story, 13x26 feet.

Garage, Diamond street and Sedgley avenue, \$20,000. Columbia Garage (O), 1001 Liberty Building. Jos. R. Smith & Co (C),

3102 Euclid avenue. Concrete, 1 story, 169x80 feet, slag roof.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

All advertising pays—even that which is poorly constructed. A bad ad. is better than no ad. at all. It is worth all that it costs in the competitive world of the present day, merely to keep one's name where the possible buyer cannot help seeing it. To be out of sight in the commercial world is to be out of mind.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

People who want to buy things do not catch the seller, chloroform him and cram the orders into his pocket.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

Alterations and Additions

Restaurant, 36 North Eleventh street, \$2000. David Powdermaker (O), on premises. D. A. McClelland (C), 4011 Baring street. Alterations.

Office Building, 1016 North Front street, \$700. David M. Hess (O), 904 Walnut street. Wm. P. Gable Co. (C), No. 7 North Third street, Camden. Steam heating system.

Blacksmith Shop and Oil House, Weccacoe and South Delaware avenues, \$700. The American Agricultural Chemical Co. (O and C), 897 Drexel Building. Brick, 1 story, 15x26 feet, slag roof; brick, 1 story, 10x15 feet, slag roof.

Storage Building, 220 Pine street, \$700. M. Kardon Paper Co. (O), on premises. Benjamin Laub (C), 414 Gerritt street. Brick, 1 story, 18x62 feet, slag roof.

Store House, Twenty-third and York streets, \$1500. Wirt & Knox Mfg. Co. (O), on premises. M. Moister & Co. (C), 3931 North Fifth street. Iron on iron, 27x34 feet.

Garage, Second and Clearfield streets, \$800. Allegheny Iron & Metal Co. (O), on premises. M. Moister Co. (C), 3931 North Fifth street. Iron on iron, 31x36 feet.

Factory, Twenty-fifth and Locust streets, \$20,000. Lanston Monotype Co. (O), Twenty-fourth and Locust streets. Wm. Steele & Sons Co. (C), 34 South Fifteenth street. Concrete 6th and 7th floors addition, 123x50 feet.

Store, 15 South Eighth street, \$1500. Mastbaum Bros. & Fleisher (O), Finance Building. Smith-Hardican Co. (C), 1606 Cherry street. Fire damages.

Dwelling, 1628 North Sixteenth street, \$500. Wm. Boland (O and C), 1730 North Twenty-fifth street. Alterations.

Dwelling, 1440-42 South Eighth street, \$800. Jos. Calucci (O and C), 1030 Mifflin street. New front and flush bulk alterations.

Factory, Cumberland and Gaul streets, \$800. Empire Gal. Works (O), on premises. Drehmann Paving Co. (C), 2622 Parrish street. Three concrete piers.

Store, Ninth and Walnut streets, \$4000. Julius Blauckensee (O, Ninth and Locust streets. B. Bornstein (C), 1510 North Franklin street. Alterations to front and interior.

Dwelling and Store, 555 North Second street, \$650. Paul Shapiro (O), 1327 South Fourth street. Chas. Friedland (C), 527 North Lawrence street. Flush bulk.

Dwelling, Thirty-second and Green streets, \$500. J. Snowden (O), 3212 Midvale avenue. John Kohl (C), 100 North Fifteenth street. Alterations.

Dwelling, 1506 Pine street, \$450. Dr. O. T. Allis (O), 1406 Spruce street. J. Biesling (C), 3823 Baring street. Brick, 1 story, 6x6 feet, bath room.

Tank Support, Twenty-fourth and Vine streets, \$500. John Lang Paper Co. (O), on premises. Wm. H. Eddleman & Sons (C), 453 Green lane. Steel work for support.

Dwelling, 503 West Springer street, \$600. William MacNeill (O), on premises. Stewart Bros. (C), 2526-28 West Orkney street. Porch enclosure.

Store and Dwelling, Sixth and Wilder streets, \$4160. Local 1073, U. B. of C. and J. of A. (O), on premises. Wm. Ariff (C), 352 Gladstone street. Brick, 1 story, 9x6 feet, and alterations, fire escape on rear.

Dye House, 1734 Howard street, \$2000.

Thomas Weinman & Son (O), on premises. Frank Achum (C), 1000 North Front street. Brick second-story additions, 20x31 feet, slag roof.

Wagon Shed, 5123 Woodland avenue, \$300. F. L. Smith (O and C), on premises. Roof, 25x35 feet, on walk, slag roof.

Store and Dwelling, 2613 Lump street, \$1000. Misses Friel (O), 2411 East Cumberland street. Joseph A. Wolf (C), 2623 Sepviva street. Fire repair.

Dwelling, 1704 South Sixth street, \$300. Joseph De Christopher (O and C), 711 Elsworth street. Alterations.

Dwelling, 2100 West Venango street, \$800. Winham H. Biehm (O), on premises. L. Makin Heating Co. (C). Heating.

Dwelling, 1504 Callowhill street, \$725. A. Faus, agent (O), Real Estate Trust Building. N. Litman (C), 2030 South Fifth street. Interior alterations.

Apartment, 148 North Eleventh street, \$800. H. B. Richards (O), 133 South Twelfth street. Stewart & Stevens (C), 1729 North Ninth street. Alterations.

Apartments, 1306 Pine street, \$800. J. Cross (O), Lafayette Building. J. F. Treney (C), 179 South Fourth street. Alterations.

RUSSIAN TIMBER.

Russia, it is stated, has almost one-half of the world's standing timber acreage.

A Russian information Bureau has been set up in the Woolworth building, New York City, operating in connection with the American-Russian Chamber of Commerce. The bureau announces that it has been established by the Russian provisional government and that it is in constant cable communication and correspondence with Petrograd and will aim to disseminate in America authentic information in regard to the economic, financial, political and cultural conditions in Russia.

It is significant that the first bulletin issued by the bureau treats of the timber industry in Russia.

Director A. J. Sack, of the Russian Information Bureau, says that during the year 1915 the debit balance of Russia's foreign trade was large, but during 1916 it was almost trebled. The question of turning the balance in favor of Russia is one of the most important problems of Russia's economic life at the present time.

"This problem is solved in a very interesting manner by the possibilities in the development of Russia's timber industry. The timber export even nowadays holds second place, following grain, in Russia's export trade."

"The development of Russia's timber industry and the export of Russian timber to the European market means for Russia the practical solution of most of her financial difficulties that are bound to arise after the war. The development of the timber industry will create a favorable foreign

trade balance and will assist in the payment of the national debt. American capital is familiar with the problems connected with the development of the timber industry, and American capital should therefore play a great part in the proper development of the timber industry in Russia. There is an opportunity in this connection for American timber interests and every effort should be made to assist Russia in the development of her timber industry in order that American capital can share in the rewards."

Proposals

Bonds. Improvements. Equipment.

As the Home Office and Headquarters of the Most Important Financial, Railroad, Engineering, Structural, Manufacturing and Equipment Firms in the United States, Pennsylvania offers a Particularly Rich and Productive Field for "Proposal" advertising. "The Builders' Guide" is the Only Medium in this Field.

INVITATION FOR PROPOSALS.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., December 1, 1917.—Sealed proposals will be opened in this office at 3 p. m. January 14, 1918, for the construction of the United States post office at Owego, N. Y. Drawings and specifications may be obtained from the custodian of the site at Owego, N. Y., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

If your proposition is one that should appeal to architects, builders, building owners, decorators, material and supply concerns, "The Builders' Guide" is the right medium for your advertising and cannot fail to bring you profitable returns.

Do not fear advertising as an expense, but court it as an asset, for that is really what it is—a value unseen, but determined from results.

ADDING INSULT TO INJURY.

We learn from the "London Builder" that much satisfaction has been caused in Belgian circles in Holland, according to a Central News telegram from Amsterdam, by the German statement that the Germans do not intend, as was at one time reported, to undertake the rebuilding of Louvain. The "Echo Belge" remarks that it is bad enough that the Germans should have destroyed Louvain, but for them to rebuild it in the German style would be even worse.

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

WHEN BUSINESS AND THE GOVERNMENT GET TOGETHER

By Ellis L. Howland, Special Representative, National Industrial Conservation Movement.

Our part in the final act of the great tragedy is not only to make "the world safe for Democracy," but Democracy safe for the world. The splendid answer which has been recorded to the riddle of our great national melting pot when ten million young men marched bravely to the roll of honor and inscribed their names, has already gone forth to a doubting world. The tears and cheers with which we sent them on their way, but a few days ago, are still fresh in mind and we will share the confident assurance that the traditions of the forefathers will bring Old Glory back with fresh laurels from Flanders, Alsace and the gates of Berlin.

The patriotic response of American industry has been quite as glorious as that of our conscripted host. However much of justice there may have been in the taunts of rival nations that we were a nation of shop keepers and a country of money-making, the American business man has registered the unquestioned fact that his commercialism was not practiced at the sacrifice of patriotism and loyalty. And, however great our wealth, we have not forgotten the significance of our "Commonwealth." At the behest of the President money, industrial plants, farm acreage, men, brains, brawn and every other resource was poured unstintingly on the altar of our common Liberty.

We may not be a nation of military motives, but we are proving ourselves a nation of common purpose. Whatever of commercialism there may have been about our activities of the past, there has come into them to-day a new conception of our obligation to the country and the public welfare. Men whose wealth transcends that of the fabled Croesus, have laid it all at the feet of Uncle Sam. Labor, which has been about the most militant of our institutions in its aims and organized purposes, has laid aside selfishness and through its accredited leaders pledged itself to serve the nation. Captains of industry in every walk of life have left their tasks voluntarily and placed their services, their brains and their experience at the disposal of the Government. The American farmer has planted and harvested such a store of food as was never known in this or any other land. And the women of the land are bending every effort to conserve it for ourselves and our Allies.

Problems of the Reconstruction.

It is a time to make every American, whatever his station, proud of his citizenship, his heritage of patriotism and our national spirit of loyalty and determination. But, if I may reverse the old admonition: "In time of peace

prepare for war," I would say to you to-day, "In time of war prepare for peace." The war has shaken humanity to its very foundations. Not only are nations hanging in the balance, but our social, industrial and economic institutions are facing most radical readjustments.

In the past we have had strata of society, based upon culture, or wealth, or lineage, but after men of all ranks and conditions have faced death, shoulder to shoulder in the trenches in defense of a common principle the old distinctions can never again prevail. We have become as never before, a common people; not only in the trenches, but in the workshop, the office and on the city streets.

The ending of the war will precipitate new conditions in every line of human relation. Friendships among nations will readjust commercial exchange; the money wastage of the war will saddle upon us all burdens of taxation which will demand unheard of economies. The losses of men and of plants in the devastated districts will weigh heavily upon reconstructed industry. Poor bleeding Belgium, for instance, once a veritable bee-hive of industry, has been stripped of every machine and every reconstructive resource. Whole enterprises have been shipped bodily to Germany, while the human element can never wholly be restored. Whatever human enterprise once did may never be repeated and no man can predict the future of industrial Europe.

Readjustments of borders will call for readjustments of trade. The entrance of women into industry will be an economic factor of no small consequence and the losses of world tonnage and the restoration of traffic are problems which will challenge all our preconceived ideas. How few of us realize that the available carrying tonnage of our overseas commerce has suffered the loss of over 3,400 ships and whose capacity was 9,800,000 tons. Before world commerce can again become normal this must be restored and new routes and commercial connections established. In America we have just awakened to the fact that no nation is safe so long as her foreign trade is at the mercy of foreign flags. The new world must find us possessed of a merchant marine commensurate with our place in the producing arena. Not only should America play a part in the rebuilding of world commerce, but our new birth into a broader place under the sun is going to force us to new ideals.

American Industries Need New Public Attitude.

Competition is going to be strenuous to a degree never before known, responsive not only to the relative efficiencies of nations, but subjected to the influence of new friendships,

preferential commercial alliances and surviving international hatred that will greatly complicate the recovery of trade and the holding of world markets. The more one delves into the probable circumstances of reconstruction, the more we are impressed that Europe's war has changed the whole world.

And how are we prepared to meet this crisis? Can we boast a reassuring measure of German efficiency and organization? Or of French economy? Or of British determination? Have we till very recently even thought of our tremendous industrial development as a national asset, in which every citizen had an interest and which could be—has been—instantly converted from a private possession to a national bulwark? The world war has brought about a new realization, but before it can be fully effective, we must adopt a new attitude of common concern for the welfare of industry.

Is our industry to-day organized on a basis of efficiency? Or are we torn by industrial uncertainties as to who shall direct, controversies as to the division of the fruits of industry, mistaken relations between business and the Government, sadly involved in a maze of half-baked notions about business and economics, and largely moulded by prejudices and theories, rather than by experience and fundamental facts? Out of an attempt to play politics are we saddled with unwise and partisan laws and a very serious remnant of class hatred and wasteful animosity?

Plans for after the war reconstruction are already engaging the best thought of other nations and all along the line, just as intelligent plans for rehabilitating business are in progress—in England, France, Japan and even in Germany—as there are for the prosecution of the war.

New Era of Business Development.

The lesson of the hour is that we have been wrong in our attitude toward business. We neglected to annex Big Business to our national institution by helpfulness and encouragement and friendly co-operation. Rather we antagonized it, meddled with it, interfered with it; regulated it by political quibblers rather than business experts. Nor was this fallacy confined to governmental circles for it was the same false principle which moved popular sentiment and the attitude of the press. Could anyone expect the highest efficiency under such conditions of misunderstanding and animosity?

In the reconstruction this must all be changed and will be. Already the truth is dawning. Men who in the past could never have been coaxed into sympathetic co-operation with official life at Washington, have acquired an enthusiasm for it which will last far beyond the war, if properly encouraged. Call it Socialistic if you choose, but when the right kind of sympathy and understanding and co-operation are set up between the Government and

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the men who mould the destinies of our great industries, there opens a new era of prosperity for us all.

Personally, I look for a new type of business official in Washington in the future and a higher type of commercial intelligence. Uncle Sam has never kept pace with industry in paying salaries which would attract and keep the best men in his employ. Business drew them away and their brains and talents and abilities and idealism was devoted to the building up of private rather than public interests.

Our Patriotic American Manufacturers.

I wonder how many of you realize the significance of the great sacrifices which our manufacturers have made for the cause. True, the war gave them great opportunities, but not so great that they forgot their civic duty. I know of no great business organization which has not voluntarily placed its entire resources at the command of the Government—plants, men, patents, business secrets and business connections. Representative associations in every line have passed resolutions placing the services of officials and members at the disposal of the President. Thousands of leaders—and men of small ideals do not rise to leadership among their fellows—have closed their desks and hurried to Washington to aid in the intricate tasks of the time; without compensation and working at their own expense. There has never been in Washington, working for the national welfare such an aggregation of business ability, and to these men, quite as much as to the ten million in khaki, can be traced our effectiveness in the war. No amount of money could buy it; it was the free-will offering of patriotism.

In precisely the same way it has been big business men with big, unselfish ideals who are shaping our national course along new paths and amid the uncharted seas of Government control. Business men have never seriously resented an intelligent application of public supervision; but they have resented governmental meddling, by politicians whose aim has been too commonly to exploit business men as rascals and enemies of the public welfare for the glorification of their own ambitions.

When business men realized that the time had come for close-hauling our individualism they rallied under the leadership of such men as Herbert Hoover, Thomas A. Edison, Howard E. Coffin, Bernard M. Baruch, H. P. Davidson and others—men of business experience who understand business motives and the operation of commercial principles. There was no longer either opposition or hesitation, but rather cordial co-operation. Convinced that it was for the benefit of the nation and that fair treatment was to be the order of the day, America's business men have thrown into the national crisis such a gigantic resource of organized industry as staggers the world.

Sacrifices by Good American Business Men.

Scores of resolutions have been adopted by business conventions in all parts of the country, pledging individually and collectively their entire possessions and services for the national defense. How many of you realize that in every branch of trade and industry, managers have been studying ways to prune expenses and place their plants on the highest pinnacle of efficiency, to the end of keeping prices down and to permit the release of as many employees as possible for national defense? It has not been a question of price, or profits with the American business man; whatever Uncle Sam needed in their control he could have for the asking.

It took a Hoover to realize that the secret of efficiency was not to fight and hamper and confiscate the business man, but rather to enlist him. He realized that the patriotism and loyalty of business and industry was of just as fine a quality as those of any other men. He realized that the secret of efficiency was acquiring the men with the best experience and employing their ability.—“American Industries.”

HOUSES FOR SOLDIERS IN FRANCE

Three hundred million feet of Southern pine will shortly be contracted for by the Government to erect portable knock-down houses for the use of American troops in France as hospitals and barracks quarters, says a recent bulletin of the Southern Pine Association.

Means to promptly meet the nation's requirements for housing millions of soldiers abroad were discussed at a general conference of lumbermen held recently at New Orleans by the Southern Pine Emergency Bureau. Plans prepared by War Department architects were submitted. These plans provide for houses to be made up in panels, put together by bolts, shipped knock-down, and bolted together by soldiers in France. Although the lumbermen saw no difficulty in carrying out the general idea outlined, present specifications were regarded as in many respects impracticable from a mill standard.

It was the general opinion of those present that best results could be obtained by a co-operative effort of lumber manufacturers and contractors. Use of material of standard sizes was also urged. The lumbermen considered that they should not undertake the manufacture of panels, a work with which they are unfamiliar, but that they should confine their efforts to producing the lumber needed, and delivering this lumber to contractors, who would engage carpenters to put together the boards in such form that they might be easily converted into buildings.

Labor is unobtainable in Europe for construction purposes; hence the idea of panels to be bolted together.

One way to escape the income tax is to quit advertising and do less business.

USE LOCAL BUILDING MATERIALS.

One way of saving transportation facilities, suggested by “Western Engineering,” is through study of local building materials for construction work. In ordinary times materials can be brought from a distance and used because they are better known or more easily handled, but with freight shortage, study of neglected local materials is justified, these often proving just as suitable as the imported article, and not only saving freight but encouraging local enterprise. Another way of saving freight is to use bulk cement on jobs where fifty barrels or more per day are required. This reduces shipping space and saves the cost of sacks and barrels.

PAINT TALK.

Mr. S. P. Jarden, manager of Sherwin, Williams Company, and an authority on paints, was an invited guest at the October meeting of the Master Tin and Sheet Metal Workers’

In the course of an instructive talk, Mr. Jarden stated that he considered red lead the best paint for a metal roof, because it seemed to have a natural affinity to the metal itself. Next to this oxide of iron, or metallic brown, was best.

Good paint is composed of oil, dryer and pigment, in proper proportions. For the sake of uniformity and the proper balance, Mr. Jarden advocated the use of the ready-mixed paints.

To forestall questions as to why the same paint wore differently in different sections of the same city, he claimed that there is a difference in the rain. For instance: rain falling in the vicinity of the Vore incinerating plant downtown will be mixed with sulphuric nitrates. Rain-fall in the northeast section, where there are glue and fertilizer works, will contain a solution of sulphuric acid. In the neighborhood of a vinegar factory the rain will be mixed with acetic acid, and all these chemicals have a damaging effect on paint and metals.

Regarding the oils in paint, besides linseed oil, the new China wood oil is good. This latter oil has only lately come into use, and is made from the nut of the tung tree.

Paint, of course, is the great necessity for prolonging the life of a roof, and Mr. Jarden recommended the association members to keep a card index of their customers, and remind them by postal card when they should have their roofs re-painted.

Red lead should be the first paint applied, because of its affinity to the new metal, it seeming to become a part of the metal itself. He did not consider that the season of the year made any appreciable difference in painting, as it was impossible to tell a roof painted in July from one painted in December; just so you don't paint when there is likely to be a frost the first night.

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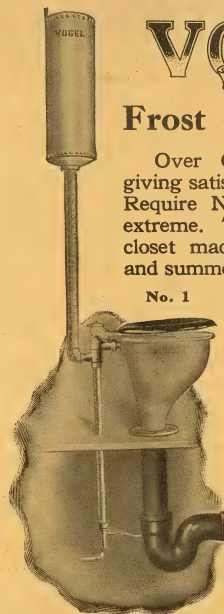
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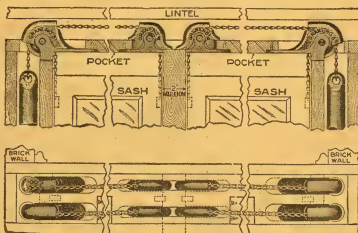
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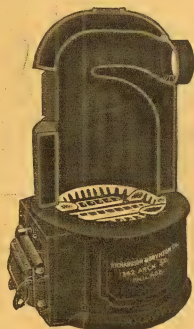


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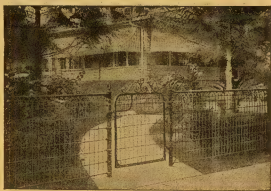
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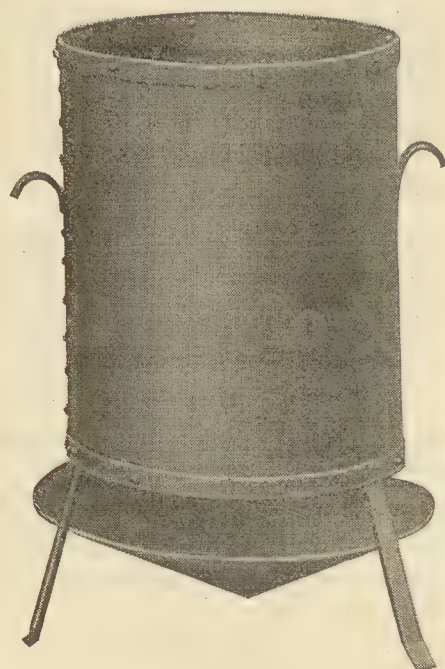
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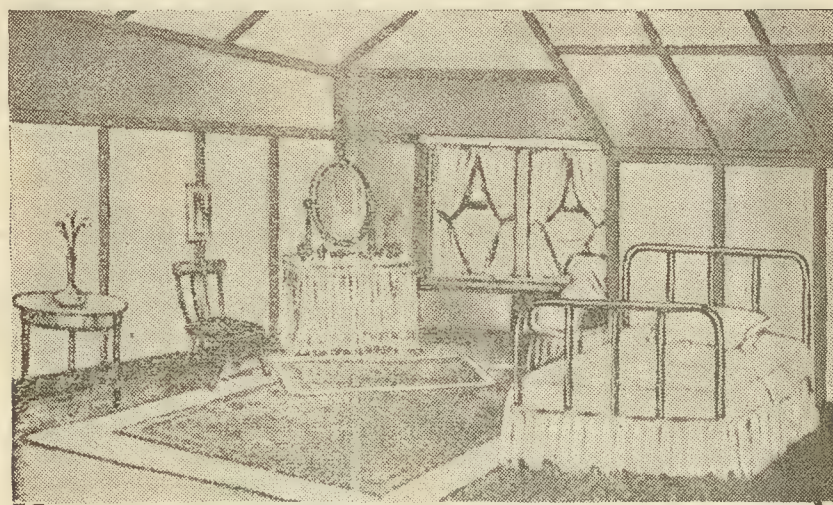
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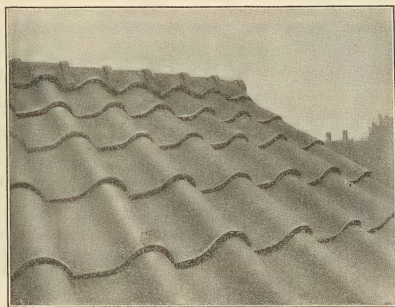
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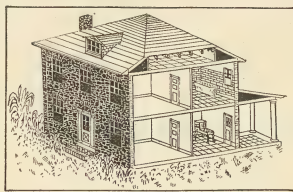


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As The Editor Sees It



A RATHER novel and not unmeritorious suggestion, dealing with the practice of architecture and advertising, is advanced by the Publicity Committee of the Illinois Society of Architects. Recognizing the fact that by reason of ethical consideration the architect is debarred from advertising as an individual the Illinois Society, through its publicity committee, suggest the advisability of general advertising, by associations of architects, along the line of educating the public to an intelligent understanding of the architectural function. Quoting from the committee's recent report of the subject:

"It is a well-known fact that our daily papers depend upon their advertisers for financial support. Architects as individuals are not advertisers. Then why should the press publish items or opinions from a class of business men who do not contribute directly to its support? They should not any more than we should render free service in preparing preliminary plans. No one places value upon an architect who distributes free sketches, pretty plans and pictures to all who may desire them. Neither does any one value the opinion of a paper that renders free advertising for the asking. The best papers no more advertise without compensation than the best architects render preliminary sketches and perspectives without compensation.

"True, we cannot and should not advertise as individuals, but there is no reason why the public may not be in-

formed as to what an architect is, what service he should render his client, and why an architect should always be employed not only to prepare the plans, but to supervise the construction of the building. The average person does not know what the duties of an architect consist of. Some think he is a sort of a contractor and bids for work, others that he is a draughtsman who prepares plans under the contractor's instructions, or that he is a necessary evil to whom you pay a commission for some pieces of blue paper. But very few realize the long hours of hard work, earnest work spent in preparing the plans and specifications and the care and integrity exercised in supervising the erection of the building.

"Whose fault is it that these facts are not more generally known? The Architect's. Why not, then, as a society, tell the public who and what we are? Buy our space like business men and help to educate the public to the advantages of having an architect. If you members will spend less money on free sketches and invest in collective publicity the result will be the best investment you have ever made."

* * *

WHILE at first glance the proposition here presented is one that may strike the average practitioners as perhaps both revolutionary and preposterous, very little consideration of the point at issue must convince even the most hidebound of conservatives that there is sound sense back

of the dominating idea. The public undoubtedly needs to be educated to the importance of the niche the architect occupies in modern affairs, and conceding this there can be no better or more direct way of educating the public than through the agency of advertising. The trade and technical press, it is assured, may be counted on to lend the fullest support to any movement of the kind the profession may decide to undertake.

* * *

AN interesting point in law, touching the right of an architect to proceed under the Mechanic's Lien Law, of Illinois, to recover for the expense incident to the preparation of preliminary plans, when the work was not proceeded with, was recently decided by the Supreme Court of Illinois in the case of Nimmons vs. Lyon & Healy. The attorney recovered for the architect the expense of making preliminary plans. The following account of the case is taken from the *Monthly Bulletin* of the Illinois Society:

Mr. Nimmons prepared preliminary plans according to the various suggestions and changes suggested by Lyon & Healy, and after the preliminary plans were about satisfactory, Lyon & Healy gave the job to another architect, and claimed Nimmons was simply competing for the job with his preliminary plans. The evidence showed Mr. Nimmons was not competing for the job and that he was entitled to recover for his work in drafting the preliminary plans. The

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great question in the case was whether Mr. Nimmons could get a lien on the land in question for making preliminary plans for a building, which was, in the strict sense of the word, not constructed.

A somewhat different building, four stories, instead of three stories, as originally planned by Nimmons, was constructed by another architect on the same premises.

We contended for Nimmons that the Illinois statute relating to mechanic's liens gives the architect a lien on the land for services performed in preparing plans for the purpose of a building on the land, whether the building is actually afterwards built or not, and whether the architect superintends the construction or not.

The case was decided in the 179 Illinois, Appellate, page 376, and the Court held that the above contention was correct, and that an architect who draws plans and specifications for a building to be erected upon a designated spot performs services for the purpose of building it so as to be entitled to a mechanic's lien, even though he does not superintend the construction of the building, and even though a building of the same identical character is not erected.

* * *

THE Court, in this case, further held that an architect who agrees and draws plans and specifications for a building for a certain price, will not be denied a lien for the contract price upon the performance of his contract merely because the architect presented a bill for a less amount, where his bill was intended as a compromise offer of settlement and the compromise offer was not accepted.

In this case Mr. Nimmons recovered his contract price for preliminary drawings, of \$2,000, besides his costs. Before beginning suit he had offered to settle his claim for \$1,600, which was refused. The supreme Court denied further appeal, and thus the decision of the Appellate Court is final.

The question whether an architect can recover under the mechanic's lien act for preliminary drawings for a building which is not afterwards built, and which, of course, he does not superintend, has been in doubt in this State, until the Nimmons case was decided. In most other States an architect cannot recover a lien for such services under the mechanic's lien laws. In Illinois, if the case is presented in a proper manner, an architect can recover for preliminary drawings, even if the work is abandoned, provided of course that the architect was employed to make preliminary plans for a contract price, or for the understood customary price charged by architects.

IN the introductory paragraphs to an article on "A Relation to the Colonial" in the pages of the *San Francisco Architect and Engineer*, Albert Farr takes an airy and diverting view of the development of architectural style.

"In these days of jazz bands, bungalows, chewing gum and other nervous disorders," writes Mr. Farr, "it is a relief to discover evidence of a return to the simpler ways of the forefathers of our country. There is no more refreshing indication of this than is shown in the renewed interest in Colonial architecture, with its well ordered forestation, direct plans and carefully studied detail, modern examples of which are beginning to show in the suburbs of many of our cities.

"Arising as this style undoubtedly did from the classical studies of our ancestors, its culture plainly shows the opinions of their day. Housed within its simple dignity we may imagine Thomas Jefferson, let us say, seated on a Sheraton chair, arrayed in georgian splendor, clay pipe in mouth and Plato's Republic in hand, dreaming of his country's future government patterned to an antique and lofty standard.

"For books and living, which is mostly housing, go hand in hand—and politics and government follow—classic learning was the culture of the 18th and early 19th centuries, gentlemen of England and France, priding themselves not alone on their Greek and Latin, but upon their knowledge of art and architecture as well, and we Colonials followed dutifully in the paths of our betters.

"Whatever this knowledge may have been, it was probably inexact, and citing from an earlier period, we read in Evelyn's Diary his description of the long since destroyed royal manor of Nonsuch, done 'in the Italian manner,' it is obvious that Nonsuch was not Italian at all, but excellent Jacobean. So of the period of which we consider, we probably had a similar intent to follow older exemplars and arrived at much the same goal as King Charles' Surveyor.

"To sum up our beloved 'Colonial' is but an attempt at transplanting the English Renaissance of the Georges, tintured from necessity to a greater or lesser degree by the Adams brothers, with something somewhat French, somewhat of late Rome, and considerably of the Greek of Pompeii. The necessity spoken of was lack of material and of skilled labor, as that much of internal work, such as mantel pieces, grates, and print swags was bodily brought from London.

"The learning thus acquired and the material imported were poured into a newer mould, to which our Dutch forbears had something to add, with the aid of Vignola and Palladio, antiquarians themselves.

"Necessity, the parent of all architecture, forbade the use of surb stone at all and not much of any other kind.

"So, as before, in centuries past, a 'style' came into being with countless offspring, some bad, some indifferent, but many worthy of earnest consideration. We may place this period in the latter part of the eighteenth and earlier nineteenth century."

* * *

MUCH the same line of thought animates an article, "The Spirit of the Colonial," contributed by Phil M. Riley to a recent number of *Hogson's magazine*. Says Mr. Riley:

"Every country has a dominant style in architecture possessed of distinguishing traits expressive of the character and life of the people. It is a living style representing the best thought of its builders, always definitely related to what has gone before, yet ever capable of higher refinement and broader adaptation to express the spirit and meet the needs of each successive generation; it is a style that develops, but never grows old.

"In the United States we have the so-called Colonial style, the one distinctive type of American architecture that is known throughout the world. Sometimes referred to as merely a Yankee name for Georgian, an English revival of the classic in America, it is that and much besides. Including the several Renaissance expressions of the Dutch and French as well as the English peoples in America, it evolved among us, adapting itself to the lives and supplying the needs of our forefathers. Its early manifestations were almost too simple to deserve consideration, but about the end of the eighteenth century it became the very flower of our domestic architecture, the priceless heritage of our nation.

"When our forebears in England were first moved to admiration by the Renaissance in Europe, Wren, Jones, Chambers, Adam and their associates turned to Italian architects, notably Palladio and Vignola, for inspiration, and unhesitatingly adopted those clever motives and details of another time and people. These were copied and utilized with relatively little creative ability or imagination and became characteristics of the so-called Georgian, a Renaissance expression differing from the Italian chiefly in the absence of that remarkable subtlety of outline and proportion achieved by the master architects of the Latin race.

"In America results were happier, very largely because of the translation from stone into wood, of which so many houses were built. The shipbuilding industry of New England also developed many highly skilled wood-carvers, whose art lent additional refinement. Through these two influences heavy Georgian motives gave way to the lighter, more grace-

ful designs which we admire so much.

"The inspiration was partly English, it is true, but Palladio and Vignola were studied as assiduously as in Great Britain, with the result that contemporaneous American designers succeeded in improving upon the somewhat colorless Georgian to the extent of placing upon their adaptations the indelible stamp of their strong character, high ideals and simple life-habits. Not subservient to the style, they dominated it, molding it to their modest needs and making exterior appearance frankly express interior arrangement and domestic uses; they gave to it a distinctive character which the English Georgian lacks.

* * *

THANKS to the lasting appeal of its real merit and to the horrors of that illogical period of architectural decadence now referred to as the Victorian era, the Colonial tradition persists to-day more firmly entrenched than ever in American esteem. The stoppage of that attempted revival of mediæval styles and ill-advised transplantings from distant lands through the general suspension of building was one of the few happy results of the Civil War.

More new houses are now being built in the spirit of our eighteenth and early nineteenth century farmhouses and mansions than with any other guiding motives. Their basic principles and details are still in constant use, often employed in original ways to fulfill the new purposes of our ever-changing life, but always closely associated with the spirit of the original usage. By this broad application great diversity of design is permitted, yet a very desirable restraint is exercised through the influence of that which has gone before.

"Colonial is a comprehensive term including much of a widely differing character. Surely we have ample evidence that it is broad enough for almost any purpose. This diversity is one of its principal charms. How different yet how similar are the new England farmhouse, the town houses of Salem, Boston, Philadelphia and Baltimore, the Dutch Colonial cottages of New York and New Jersey, the Pennsylvania farmhouse and the stately mansion of the South!

"The motives and details are much the same and relatively few in number, yet how varied are the effects as the whole mass of the structure, the contour of its roof, the doorway and other details of its facade differ! They are the result of dissimilar adaptation according to the state of affluence, racial characteristics, taste, skill and local materials. Monotony through too great similarity of neighboring houses must surely be the fault of the architect rather than of his medium of expression. No such monotony

exists even in old cities such as Salem, Massachusetts, where nearly every building worthy of notice is Colonial.

* * *

THE real adaptability of the Colonial style to the needs of the present day and such new uses and refinements of the modern homes as piazzas, sleeping-porches and sun parlors, is due to the fact that its beauty lies chiefly in nice proportion and graceful ornamentation of its motives. These very qualities, however, are responsible for most of the failures of adaptation. In styles incorporating a profusion of detail, salient points are often so confused as to result in an apparently suc-

cessful adaptation; not so in Colonial. A well-known architect has truthfully said that in Colonial design there is no more latitude for "faking" than in the delineation of a circle; either it is perfect or it is not. It follows, then, that old houses which are selected as models for purposes of adaptation should be chosen with the utmost regard for their harmony of motives, nicety of proportion and refinement of detail. Inconsistencies result when proper distinctions have not been made, and in this connection the services of a skilled architect and experienced builders of wide knowledge and sympathetic interest are not only important, but really are invaluable."

EDITORIAL NOTES

Federal construction remains the predominating element in the structural industry, and the immense volume of business emanating from this source is almost wholly responsible for what activity is current. New building operations for military purposes are being announced daily by the authorities at Washington, and the total amount of money that the Government is expending for its preparations for offense and defense will reach an amazing figure.

* * *

Former Rear Admiral Francis T. Bowles, head of the construction department of the United States Emergency Fleet Corporation is quoted as saying recently at Baltimore that he had been authorized to lend enough money to build 1,500 houses for workmen at the Sparrows Point branch of the Bethlehem Steel Company.

* * *

Pittsburgh building reports for November show a total of \$2,543,918. This was a gain of \$790,000 over November, 1916, and \$103,000 over October of this year. The increase has been much remarked about, as it shows a disposition among builders to break away and get into the game again.

* * *

Undoubtedly a very large volume of Government building is to be executed in the near future. According to reports received the Government program comprises upward of \$1,000,000,000 worth of military construction during the coming year. The appropriation bill presented to Congress contains provisions for almost every conceivable type of building and character of construction that a thoroughly equipped naval and military organization demands. This work will be scattered all over the nation, although the Atlantic Coast States will naturally obtain the major portion.

* * *

Present indications are that the Gum Lumber Manufacturers' Association and the American Oak Manufacturers' Association will be

merged into a strong centralized organization, that will perform the functions of these two bodies and at the same time cover a much wider field than either has been able to cover separately, at the annual meetings of these associations to be held in Memphis the third week in January.

* * *

Since considerable of the data in the "Rules and Regulations of the War Trade Board," which has been distributed very widely throughout the country, has now been superseded by new rulings and lists, the Division of Information of the board is preparing a "War Trade Board Manual for Shippers," which will contain only data in force at the time of its publication.

* * *

The 33rd Annual Exhibition of the Architectural League will be held as usual in the Building of American Fine Arts Society at 215 West Fifty-seventh street, New York City. The public exhibition opens on Sunday, February 3rd, and will continue until February 23rd, inclusive. There will be a series of public lectures during the course of the exhibition and there will be competition for the usual prizes.

* * *

The American Concrete Institute will hold its annual meeting in Chicago, Ill., February 7 to 9, 1918. Secretary, H. B. Alvord, 27 School street, Boston, Mass.

* * *

The American Institute of Consulting Engineers will hold its annual meeting in New York January 14, 1918. Secretary, F. A. Molitor, 35 Nassau street, New York.

* * *

Alfred Janson Bloor, one of the founders and a life member of the Metropolitan Museum of Art, New York City, and an architect who designed many of New York's largest buildings a half century ago, died at Stonington, Conn., on November 19, aged 89 years. Mr. Bloor was a member of the Willard Architectural Commission in 1886, of the

American Numismatic Society, and of the one-time Royal Society of Portuguese Architects and Archaeologists. He was the author of "Woman's Work in the Civil War" and the translator of poems of many languages. His home in New York was at 38 East Fifty-seventh street for winter seasons and at Cove Lawn, Stonington, in the summer.

* * *

The Retail Lumber Dealers' Association of the State of New York, Paul S. Collier, secretary, Chamber of Commerce Building, Rochester, has announced that the dates for the annual convention of that association have been fixed. The convention headquarters will be the Ten Eyck Hotel, Albany, N. Y., January 30, 1918 and February 1.

* * *

Herbert M. Hale, recently with the Holbrook, Cabot & Rollins Corporation on the Catskill Aqueduct and New York subway work, has become associated with the Turner Construction Company, New York, as assistant to the contract manager. Mr. Hale had been with the Holbrook company for six years, prior to which he was with the New York Rapid Transit Commission and the New York Board of Water Supply.

* * *

The University of Illinois Short Course in Ceramic Engineering will be given January 7-19, 1918. The course will be under the direction of Professor E. W. Washburn, head of the Department of Ceramic Engineering, and Mr. A. V. Bleining, ceramic chemist of the National Bureau of Standards, assisted by Professors C. W. Parmelee and R. K. Harsh, of Illinois, and a corps of lecturers on special topics. The two weeks' course is intended to cover in an elementary and practical manner the scientific principles underlying the practice of clayworking. A common school education will suffice for the work of the course and no tuition fee will be charged. The course is open to all who are interested.

* * *

Estimates on general contract have been taken for the erection of about three hundred dwellings to be built at Arlington, S. I., for the Downey Shipbuilding Corporation, Wallace Downey, president, 120 Broadway, New York, owner. This project is required in order to adequately house the large number of mechanics in the employ of this concern. The buildings have been planned by Simpson & Briscoe, architects, Essex Building, Newark, N. J. They will be two-story houses, built of brick, concrete and stucco, with ground dimensions of approximately 23x23 feet. Modern improvements will be installed for the comfort and convenience of the workmen. These buildings will cost about \$2,000 each.

* * *

The markets for building materials and supplies have generally slowed down to a point of inactivity owing to the dearth of new building operations. As a rule material and supply prices have been firm, and there is every prospect that the market conditions will readjust themselves naturally as soon as there

is a resumption of structural work. Producers of building commodities are all hampered to some extent by the scarcity of fuel and raw materials, and the difficulties of transportation. To some the conditions are acute and mean virtually a suspension of manufacturing until the situation is improved.

* * *

Questions of lumber supply and prices were discussed at a conference of lumber interests and the Federal Commissioners at Washington recently. The meeting was executive, but it is understood that the question of production costs was thoroughly discussed. The committees representing the lumber interests at the Trade Commission hearing were: Southern Pine Bureau—W. H. Sullivan, chairman; R. A. Long, F. W. Stevens, F. L. Sanford, J. L. Kaul, M. B. Nelson, J. H. Kirby, Harry T. Kendall, T. L. L. Temple, W. M. Cady, W. B. Patterson, W. J. Sowers, Charles S. Keith, J. E. Rhodes and L. C. Boyle. Georgia-Florida Bureau—H. R. Swartz, J. R. McLain, M. L. Fleishell, J. E. Graves, E. V. Dunlevie, R. M. Bond, R. H. Paul, Roland Perry and Thomas Aycock. North Carolina Pine Bureau—Gilbert L. Hume, chairman; C. I. Millard, R. J. Clifford, J. L. Camp and A. Mason Cook. Douglas Fir Bureau—J. H. Bloedel, A. L. Paine, George S. Long, Major E. G. Griggs, J. T. Gregory, R. B. Allen and E. T. Allen.

* * *

The labor situation to-day is in somewhat better position than it has been recently. Mechanics for building purposes are plentiful; in fact, there is not sufficient work for all available. Owing to the lack of employment in building construction, as a consequence of the few structures being erected, these men are seeking employment in the new shipyards that are springing up along our shores. The building of ships requires almost the same type of mechanics that are used in the building trades, and so with but slight readjustment to strange conditions these men will be assured of employment while the existing stagnation of building construction maintains, but will be available when their services are again required by the building trades.

* * *

E. C. Sickles, recently works engineer of the Hyatt Roller Bearing Company, Newark, N. J., has joined the Lackawanna Bridge Company, in connection with the shipbuilding activities of that company, at Port Newark, N. J.

* * *

Clarence W. Woolley, for many years president of the American Radiator Company, has been appointed a member of the War Trade Board by President Wilson. He will administer the board's supervision over imports. Thomas D. Jones is vice-chairman of the board.

* * *

The American Road Builders' Association will hold its fifteenth annual convention in St. Louis, Mo., during the early part of February, 1918. Further details of this meeting will be available for a later issue.

The Chicago Cement Machinery and Building Material Show will be held in the Coliseum, Chicago, February 6-13. The show will be held under the auspices of the National Exhibition Company, 123 Madison street, Chicago.

* * *

The American Society of Civil Engineers will hold its 65th annual meeting in the new headquarters of the organization, 33 West Thirty-ninth street, New York, Wednesday and Thursday, January 16-17, 1918. The business session will take place Wednesday evening.

* * *

The steadily increasing activities of the factories and plants engaged in the manufacture of war munitions and supplies, and the erection of new shipyards along our coasts, are greatly aggravating the problems incident to properly housing the thousands of employees working in these industries. Important steps have already been taken at certain localities looking toward the relief of the situation, but in a large number of communities the condition is still acute, and immediate action must be taken to house the additional employees. In order to properly house the vast number of skilled mechanics, who, with their families have flocked to the munition plants in a patriotic endeavor to "do their bit," literally thousands of new houses must be erected and millions of dollars expended for the purpose. Nationally prominent housing experts, social welfare workers, architects, engineers, builders and financiers are at present engaged in a study of the numerous difficult problems involved, and it is thought that before the elapse of many days some definite results will be announced that will greatly assist in relieving the intolerable conditions that now exist in some of the leading manufacturing communities of this country.

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REPAIR OF THE HISTORIC NEW ORLEANS CUSTOM HOUSE AND WHAT IT HAS REVEALED

Workmen delving into the recesses of the foundation and roof of the ancient custom house at New Orleans have just uncovered some very interesting and surprising facts concerning the queer but thorough methods of early building operations in the South.

How a massive structure erected on planks and logs in the marshy soil of New Orleans could stand for almost three-quarters of a century without a crack or break of any character, and remain to-day as substantial as when it was built, is proving a marvel to modern engineering experts.

This enormous gray building occupies an entire block. On the site where it rests there stood during the early history of this city some kind of a custom house. It is worthy of note, too, that this block was then situated almost on the bank of the Mississippi River. Ever since then the river has been busily engaged in building up the "batture" with silt taken from other points, and the "batture" has grown in width from year to year, until the building to-day stands a full 200 yards away from the river.

The first custom house was burned in the great fire of 1788, and then Governor Miro erected a better structure. Carondelet, coming on the scene later, swept away everything that was on the site and built Fort St. Louis there, covering the entire block.

When, in their turn, the Americans took charge, they had no use for forts, so they demolished Fort St. Louis and built a brick court house in the middle of the block. A bethel stood alongside.

In 1848 both of these were removed, the site, which had been ceded to the United States, was chosen for the custom house, and the work of building began.

The Civil War came on, and it was years before the interior of the building was even approximately finished. General Beauregard had technical supervision of the building—he was then major of engineers—and it is said that the corner-stone was laid by Henry Clay. In fact, the upper floor had not been completed even up to the time of the partial abandonment of the structure a few years ago, when the new post office was occupied by most of the government departments at New Orleans.

The foundations prepared for this huge structure will be of interest to people of to-day, who are accustomed to seeing deep-driven piles made ready for any large building, and steel and reinforced concrete used to strengthen every part. The foundations of the custom house rest on a plank floor seven feet below the sidewalk, on which is a grillage of 12-inch logs, covered by a layer of concrete one foot deep. Yet the building is there. It has sunk only a foot or two—one end a little further than the other. It has not gone down into the earth, as one would have expected

of a massive building erected on such a foundation, in the marshy soil of old New Orleans.

A view of the roof, now in course of repair, offers as many interesting sights to the student of building as the sub-structure or the enormous stones used in the walls. Here the carpenter has torn off the copper covering and revealed a great layer of Southern yellow pine sheathing in almost perfect condition. This sheathing was put down under the original roof of the building, and has performed continuous service since. Here and there a defect in the roofing has permitted water to seep through and cause a small spot to partially rot. With this exception the sheathing is as good to-day as it was when cut from the Southern pine forests of Louisiana before the Civil War.

KILN DRIED WOODS.

The investigations of the Forest Products Laboratory of the Forest Service at Madison, Wis., are proving of practical value now in the solution of war problems. The scientific study made of the drying of woods has developed methods of drying which have been very successful with all the woods tried. The experiments have been made in kilns built at the laboratory and also in commercial kilns. It has been found that Sitka spruce can be kiln dried from the green condition with no more and perhaps less injury to its mechanical properties than by air seasoning. Definite specifications have been prepared for kiln drying spruce green from the saw for airplane construction, and if rigidly adhered to, they will insure kiln dried stock of this species equal to air dried stock. Because the Allied nations had practically exhausted the available supply of air seasoned woods in this country suitable for airplane construction before the United States entered the war, there was a great scarcity of material for airplane manufacture when it became necessary for our Government to enter into this field of construction. Ash is the principal wood used for airplane propellers and tests are now going on to produce definite specifications for the kiln drying of ash from the green log to make it suitable for airplane use.

The study of kiln drying processes made necessary by this emergency will be of valuable assistance to commercial enterprises after the war.

There never was, never will be, a better medium for the man who has something to sell to a given class of buyers than the trade paper whose circulation is limited to that class. Newspapers with their swollen circulations strike at best but a chance target here and there. The trade paper carries your rifle fire to targets exclusively. You can't miss,—if your ammunition's right.

DUCK SHOOTING and COMMON SENSE

When you buy space you buy it with the expectation of getting a reasonable return on your investment. Sure you do. Now where do you stand the best chance of getting that return—in the daily newspaper, whose circulation is confined largely to people with no interest in your product, or in the trade paper, every copy of which goes to a reader directly interested and likely at any minute to need your goods?

If your hobby is large circulation, you will spend your money in the daily—but before you take this step suppose you pause long enough to figure just what percentage of the immense circulation, for which you will pay a fancy rate, is going to go where there is so much as an off-chance of it doing you any real good. FROM THE ANGLE OF THE MAN WHO HAS BUILDING MATERIAL TO SELL, FULLY NINETY PER CENT. OF THE SWOLLEN CIRCULATION OF THE DAILY NEWSPAPER REPRESENTS WASTED AMMUNITION. It is going to readers who are not interested in building material, and are not likely even in a remote sense ever to build or have building done.

IF YOU WANTED TO SHOOT DUCKS YOU WOULD NOT FIRE PROMISCUOUSLY INTO THE AIR, HOPING THAT BY SHEER LUCK SOME MISGUIDED MALLARD MIGHT ACCIDENTALLY WANDER INTO RANGE, OF COURSE YOU WOULDN'T! YOU'D GO WHERE YOU KNEW DUCKS TO BE, and, sighting a covey of 'em, you'd bang away with both barrels. So it is with advertising.

In the daily you stand an off-chance in a thousand of accidentally hitting the eye of some fellow with an interest in your line. In the trade papers, such as the Guide, you bang into a colony of readers who are interested in building above all other human activities.

The moral is—when you go duck shooting do your shooting where you know the ducks to be!

WHEN YOU WANT TO REACH THE ARCHITECT, THE BUILDER, THE BUILDING OWNER, THE INVESTOR, THE SUB-BIDDER, IN EVERY BRANCH OF THE CONSTRUCTION FIELD, THERE IS BUT ONE PRESERVE IN WHICH TO GUN:

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; COST LIMIT; LAST DAYS FOR FILING BIDS; FIRMS FIGURING: CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED: ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage, east side of Twelfth street, north of Vine street. Architects, Andrew J. Sauer & Co., 918 Chestnut street, Philadelphia. Owner, Nass Estate, care of architect. Brick, 1 story, 40x60 feet, electric lighting. Plans in progress. Too early for details. Will take bids in about one week.

Apartment House, Forty-fourth and Walnut streets, Philadelphia. Architect, Frank C. Hood, 1620 Spruce street, Philadelphia. Owner, Pasquale C. Teti, Tenth and Catharine streets, Philadelphia. Brick, concrete and steel, 3 stories, 12 apartments, slag roof, hot water heating, electric lighting, tile and marble work, hardwood floors. Plans in progress. Will take bids in about three weeks.

Residence (alt. and add.), St. Martins, Philadelphia. Architects, Duhring, Okie & Ziegler, 1218 Chestnut street, Philadelphia. Owner's name withheld. Stone and timber, 3 stories. Plans in progress.

Garage (alt.), Second and Arch streets, Philadelphia. Architects, Custer & Gill, 304 Market street, Camden, N. J. Owner, Joseph B. McAnally, care of architects. Stone work, mill work, 1 story and basement, 15x51 feet, cement floors, heating extension, electric lighting, fire doors. Architects taking bids, due as soon as possible. Standard Const. Co., 1713 Sansom street, is figuring.

Service Station, Frankford avenue, Philadelphia, \$4,000. Architects, Stearns, Woodnut & Schmohl, Stephen Girard Building, Philadelphia. Owners, Wm. M. France Sons, 1316 Foulkrod street. Brick, concrete and terra cotta, 2 stories, 40x160 feet, slag roof, steam heating, electric lighting, cement floors, gasoline storage system. Owner will build.

Manufacturing Building (alts. and add.), Twentieth and Indiana avenue, Philadelphia. Architects, Stearns, Woodnut & Schmohl, Stephen Girard Building, Philadelphia. Owners, M. L. Bayard & Co., Pennsylvania Building, Philadelphia. Brick, concrete and steel, 3 stories, slag roof, cement floors, steam heating and electric lighting extension. Owner is building.

Theatre, Broad and Lombard streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owners, The Dunbar Amusement Corp., care of architects. Brick, stone and reinforced concrete, 1 story, basement and gallery, 78x129 feet, slag roof, steam heating, electric lighting, tile, marble and terrazzo work, pine and cement floors, metal lath, fire escapes, ornamental iron work, automatic sprinklers. Architects have received bids.

Residences (8), Walnut Lane and McCallum street, \$28,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John F. Conlin, 5340 Germantown avenue. Brick and stone, 2 stories, 21x34 feet, slate and slag roof, hardwood floors, hot water heating, electric lighting, tile and marble work, stone foundations. Owners taking sub-bids, due December 28th.

Apartment House (alts.), Sixty-first and

Jefferson streets, Philadelphia. Architect, Louis Magaziner, 603 Chestnut street, Philadelphia. Owner, Samuel Englander, Crozer Building, Philadelphia. Consists of interior alterations, plastering, partition work, lighting and heating. Owner taking bids. The following are figuring: Wm. Linker Co., 831 Cherry street, and H. D. Prettyman, 2603 S. Broad street, Philadelphia.

Store Building (alts. and extension), 132-34 Arch street. Architect, Frank E. Hahn, 1112 Chestnut street, Philadelphia. Owner, H. Fliegelman, 35 North Second street. Consists of general interior alterations and rear extension. Brick, 4 stories, 30x60 feet. Plans in progress. Architect will take bids in about two weeks.

Boiler House, Sixty-third and Market streets, Philadelphia. Architect, J. M. Whitham, 607 Bullitt Building, Philadelphia. Owners, Shane Bros. & Wilson Co., on premises. Brick and concrete, 1 story, 33x40 feet, slag roof, concrete floors, electric lighting, rolled steel sash, fire doors. Architect taking bids, due as soon as possible. F. B. Davis, 240 N. Sixteenth street, is figuring (only bidder).

Bank Building (alt.), 325-331 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, the Fidelity Trust Co., Fourth and Chestnut streets, Philadelphia. Brick, stone and concrete work, interior and exterior alterations, slag roof, electric lighting, tile, marble and terrazzo work, hollow tile, metal lath. Architect taking bids, due December 28th. H. H. Burrell, 206 South Quince street; F. L. Hoover & Son, 1023 Cherry street; F. A. Havens, 845 North Nineteenth street, and H. E. Baton, 1713 Sansom street, are figuring.

Store and Apartments, Fifty-sixth and Chester avenue, Philadelphia. Architects, Charles W. Bolton & Son, Witherspoon Building, Philadelphia. Owner, Nelson Fry, Nineteenth and Arch streets, Philadelphia. Brick and stone, 3 stories, 35x75 feet, slag roof, hardwood floors (steam heating, electric work, plumbing and tile and marble work reserved). Ar-

chitects taking bids, due December 27th. Thomas C. Trafford, 1613 Sansom street; Sutton & Stephenson, 1317 Washington avenue; Hogg Const. Co., 1634 Sansom street, and Robert E. Lamb Co., 843 North Nineteenth street, are figuring.

Service Station, Philadelphia. Architects, Henon & Boyle, 10 South Eighteenth street, Philadelphia. Owner's name withheld. Brick and stone, 2 stories, 40x100 feet, slag roof, steam heating, electric lighting, rolled steel sash, fire doors, elevators. Plans in progress. Will take bids in about three weeks.

Stations (4), Frankford Elevated, Philadelphia. Architects, Department of City Transit, Bourse Building, Philadelphia. Owners, City of Philadelphia, Department of City Transit, Wm. S. Twining, Director, Bourse Building, Philadelphia. Brick, concrete and steel, 2 stories, 49x22 feet, and 3 stories, 64x30 feet, slag and tile roofs, cement floors, electric lighting, tile, marble and terrazzo work, rolled steel sash, hollow metal sash and skylights, fire and hollow metal doors, iron stairs, ornamental iron work, hollow tile, metal lath, safety treads, roof ventilators, metal ceilings, wire work. Owners taking bids, due December 27th at noon. Edw. Atkins, 249 S. Twenty-fourth street; W. W. Anstine & Co., 1218 Filbert street; F. B. Davis, 240 N. Sixteenth street; Thos. Duff, 4466 Wyoming avenue, Frankford; James Connors, 1317 Arch street, and Holmesburg Concrete Co., Holmesburg, all of Philadelphia, and Connors Bros. Co., 64 West Eighty-eighth street, New York City, are figuring, in addition to those previously reported.

Artillery Firing Range, No. 9485, Frankford Arsenal, Philadelphia. Architect, private plans. Owners, U. S. Government, care of Col. Montgomery, Frankford Arsenal, Philadelphia. Reinforced concrete and brick, 1 story, 19x12 feet, and 1 story, 20x100 feet; range 150 feet, slag and ready roofing, steam heating, electric lighting, concrete floors, kalamein doors, iron stairs, waterproofing, ornamental iron work. Owners have received bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Hospital Building and Storage Buildings (4), Navy Yard, Philadelphia. Architect, private plans. Owners, U. S. Government, care of C. R. O'Leary, Pay Inspector, U. S. N., Philadelphia. Frame, 1 story, 27x26 feet. Building A, 1 story, 100x600 feet; Building B, 1 story, 70x347 feet; Building C, 1 story, 30x100 feet (and Building D, 1 story, 25x115 feet, ready roofing, roof ventilators (heating and lighting reserved). Contract awarded for

hospital building to Hogg Const. Co., 1634 Sansom street, Philadelphia. Contracts for Buildings A, B, C and D awarded to McCloskey & Bahls, 1620 Thompson street, Philadelphia.

Garage, 750-58 South Clarion street, Philadelphia, \$5,000. Architect, Edw. A. Crane, 1012 Walnut street, Philadelphia. Owners, Garrity Bros., on premises. Brick, 2 stories, 80x50 feet, slag roof, hot water heating, elec-

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tric lighting, cement floors, roof ventilators, rolled steel skylights, gasoline storage system. Contract awarded to John F. Garrity, 1141 South Broad street, Philadelphia.

Factory (add.), 2035 Washington avenue, Philadelphia. Architect, private plans. Owners, Merchant & Evans, 2035 Washington avenue. Brick (slow burning), 2 additional stories, 63x130 feet, slag roof, maple floors, rolled steel sash (fire doors, heating and lighting reserved). Contract awarded to F. A. Havens & Co., 845 North Nineteenth street, Philadelphia.

Store Building (in. alts.), 258 North Broad street, Philadelphia. Architect, Philip S. Tyre, 1509 Arch street, Philadelphia. Owners, General Realty Co., Philadelphia Stock Exchange Building, Philadelphia. Consists of interior alterations, mill work, store fixtures. Contract awarded to Frank Rieder & Son, 1507 Germantown avenue.

When you are done with this copy of the "Guide" hand it to some fellow who ought to make its acquaintance.

PENNSYLVANIA Construction News

Office Building, York, Pa. Architects, Gemmill & Billmeyer, York, Pa. Owners, York Tack & Nail Works, York, Pa. Brick, 1 story, 44x27 feet, slate roof, steam heating, electric lighting, wood floors. Plans in progress. Architect will take bids about January 1st.

Garage, Gettysburg, Pa. Architects, Gemmill & Billmeyer, York, Pa. Owners, Edw. Plank & Dr. Markley, Gettysburg, Pa. Brick, 1 and 2 stories, 60x181 feet, composition roof, concrete floors, steam heating, electric lighting, rolled steel sash. Plans in progress.

Theatre Building, Department Store and Rooming House, Coatesville, Pa. Architect, J. B. Harman, Lancaster, Pa. Owner, I. Braunstein, Coatesville, Pa. Brick, 2 stories, 120x50 feet and 100x17 feet, 97x50 feet and 50x31 feet, 4 stories, electric lighting, tile and marble work, hollow metal sash and skylights, flush bulks, metal lath, elevators. Preliminary plans completed.

Pattern and Sand Room and Boiler House, Lancaster, Pa. Architect, private plans. Owners, Monitor Bi-Loop Radiator Co., Lancaster, Pa. Brick, 1 story, 171x8 feet, rubberoid roof, concrete floor, hollow metal sash and skylights. Owner taking approximate bids.

Restaurant alt. and add., 36 N. George st., York, Pa. Architect, G. Frank Witman, City Stathmopoles, on premises. Brick, 1 story, 25 feet front, general interior alterations, tin roof, composition floors, electric lighting, marble and terrazzo work, metal ceilings. Architect taking sub-bids.

Store Building (alts.), Fifth and Market streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Simon Bruner, Chester, Pa. Brick and terra cotta, 1 story, 40x70 feet, slag roof, hot

water heating, combination lighting, tile and marble work, hollow metal skylights, metal bulks, pine floors, plastering. Contract awarded to R. H. Scroggins, Chester, Pa.

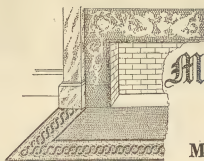
Chief Gunners' Quarters, No. 2722, Fort Mifflin, Ppa. Architect, private plans. Owners, U. S. Government, care of A. L. Parson, Acting Chief, Navy Department, Bureau of Yard and Docks, Washington, D. C. Brick and frame, 2 stories, 36x30 feet, asbestos shingle roof, hot water heating, electric lighting, tile work, maple floors, hollow tile, metal lath, waterproofing. Low bidders: Evans Const. Co., 9 South Eighteenth street, No. 1, \$9,972, 955 days; No. 2, \$10,272, 100 days; No. 3, \$10,222; 100 days. Dawson Const. Co., May Buiding, Pittsburgh, Pa., No. 1, \$10,500, 120 days; No. 2, \$12,500; No. 3, \$12,000.

Factory (alt. and add.), Mohnton, Pa. Architect, C. J. Young, Reading, Pa. Owner, W. C. Leininger, Mohnton, Pa. Brick, 2 stories, 100x100 feet, slag roof, maple floors, electric lighting, metal lath, elevators, sprinklers, hollow metal skylights, fire doors, roof ventilators. Plans completed. Owner taking sub-bids.

Toilet, Locker Room and Shower Room Building, Lebanon, Pa. Architect, A. A. Ritcher, Reading, Pa. Owners, Lebanon Steel Casting Co., Lebanon, Pa. Brick, 1 story, 22x41 feet, composition roof, steam heating, electric lighting, cement floors, steel lockers. Plans in progress. Owners will take sub-bids.

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Pennsylvania Contracts Awarded

Signal Tower and Battery House, Norristown Junction, Pa. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia and Reading Railroad Company, Twelfth and Market streets, Phila. Brick, 2 stories, 15x26 feet, and 1 story, 18x34 feet, asbestos shingle roof and slag roof, electric lighting, fire doors, cement floors, ornamental iron work (heating reserved). Contract awarded to Beaumont & Bader, 12 S. Tennessee avenue, Atlantic City, N. J.

Foot Bridge, No. 45-C, Lebanon on Lebanon Valley Branch, Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading R.R. Co., Reading Terminal, Philadelphia. Steel truss work. Contract awarded to Lewis F. Shoemaker & Co., Pottstown, Pa.

Residence and Garage (alt. and add.) and Entrance Gates, Merion, Pa. Architects, Seaburger & Rabenold, Pennsylvania Building, Philadelphia. Owner, J. E. Brunet, Jr., 1501 Master street, Philadelphia. Stone and brick, 2 stories and 3 stories, 94x15½ feet, shingle and tile roof, cement, oak and pine floors, tile and marble work, metal lath, stone foundations (porte cochere, heating and lighting reserved). Contract awarded to E. J. Hedden, Finance Building, Philadelphia.

Garage (alt.), Reading, Pa. Architect, C. J. Young, 520 Washington street, Reading, Pa. Owner, H. O. Koller, 126 North Fifth street, Reading, Pa. Brick, 3 stories, general interior alterations. Contract awarded to Charles Schlegel, Reading, Pa.

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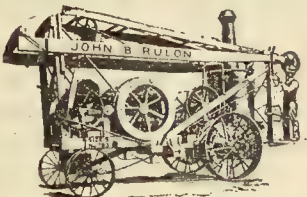
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NEW JERSEY Construction News

Power House and Signal Tower, Skillman, N. J. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Phila. & Reading R.R. Co., Twelfth and Market sts., Philadelphia. Concrete, brick and steel, 2 stories, 20x15 feet and 1 story and basement, 13x33 feet, slate and asbestos roof, hot water heating, electric lighting, rolled steel sash, fire and almetal doors, cement floors, iron stairs, ornamental iron work (power house lighting). Owners taking bids, due December 29th. F. W. Van Loon, Denckla Building; Hogg Const. Co., 1634 Sansom st.; Wark-Yardley Co., 1737 Filbert st.; Mitchell Bros., 2125 Race st., and A. L. Carhart, Hale Building; F. A. Hareus & Co., 843 North Nineteenth street; H. E. Baton, 1713 Sansom street, and Roydhouse-Arey Co., 112 North Broad street, are figuring.

Carn Barn (fire repairs), Trenton, N. J. Architect, not selected. Owners, Trenton & Mercer Co., Traction Corporation, American Mechanics Building, Trenton, N. J. Brick, 2 stories, 350x80 feet. Work contemplated.

Post Office, Woodbury, N. J. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Brick, 1 story, 55x60 feet, composition roof, steam heating, electric lighting, marble and terrazzo

work, rolled steel sash, hollow metal skylights, kalamein doors, ornamental iron work, concrete floors, metal lath, safety treads, roof ventilators, metal weatherstrip, waterproofing and dampproofing. Owners will readvertise for new bids.

Telephone Exchange, Gloucester, N. J. Architect, private plans. Owners, Bell Telephone Co., 1230 Arch street, Philadelphia. Consists of general interior and exterior alterations. Brick, 2 stories, mill work, hot water heating, electric lighting, plumbing, plastering and painting. Owners taking bids, due January 3rd at 9 A. M. E. R. Hall, 34 South Seventeenth street, Philadelphia, is figuring.

Bungalow, Stone Harbor, N. J. Architects, Custer & Gill, Third and Market streets, Camden, N. J. Owners, Custer & Gil, Third and Market streets, Camden, N. J. Frame, 2 stories, 20x40 feet, shingle roof, pine floors. Plans in progress.

Infirmity Building, Hightstown, N. J. Architect, John F. Jackson, 1326 Broadway, New York City. Owners, Peddie Institute, Hightstown, N. J. Brick, reinforced concrete, hollow tile, terra cotta and plaster, slag and slate roof, electric lighting (heating reserved). Architect taking bids, due December 28th. Hughes-Foulkrod Co., Commonwealth Building, Philadelphia, is figuring.

Miscellaneous Construction News

Armory Building (add.), Milford, Del. Architect, Leon W. Crawford, Wilmington, Del. Owner, General Wickersham, Wilmington, Del. Brick and stucco, 1 story, asbestos shingle roof, pine floors, electric lighting. Plans completed. Architect will be ready for bids.

Residence, Twentieth and Van Buren sts., Wilmington, Del. Architects, Hope & Carlson, Ford Building, Wilmington, Del. Owner, Arthur Parsons, Wilmington, Del. Stone, 2½ stories, slate roof, hardwood floors (heating and plumbing reserved), electric lighting. Architect taking bids, due December 29th. John E. Healy & Son, 707 Tatnall street, Wilmington, Del., are figuring.

Office Building, Maryland avenue and First street, Washington, D. C. Architects, Ballinger & Perrot, Seventeenth and Arch sts., Philadelphia. Owners, Board of Temperance, Prohibition and Public Morals of the M. E. Church, Washington, D. C. Brick, concrete and

steel, 6 stories and basement. Preliminary sketches being drawn.

Power House (superstructure), Navy Yard, Brooklyn, N. Y., No. 2585. Architect, private plans. Owners, U. S. Government, Bureau of Yards and Docks, F. R. Harris, Chief, Navy Department, Washington, D. C. Owners taking bids, due January 7th at Navy Yard, Brooklyn, N. Y. Plans may be obtained from Chief of Bureau.

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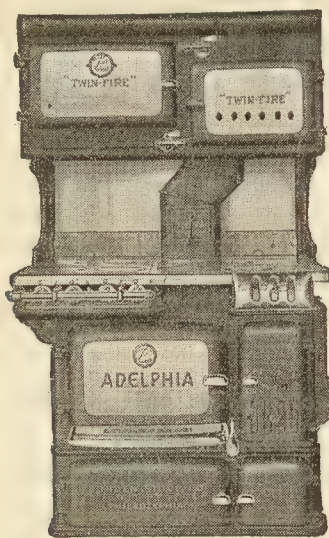
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MARYLAND

Construction News

Abattoir and Cold Storage House, Tank House, Power House and Garage, Sixth street, south of Wilkens avenue, Baltimore, Md. Architects and engineers, Gardner & Lindberg, Marquette Building, Chicago, Ill. Owners, Corkran, Hill & Co., 221 South Howard street, Baltimore, Md. Reinforced concrete, brick and stone, 3 stories, 90x220 feet, composition roof, direct and indirect heating, electric lighting, steel sash, fire doors, hollow metal skylights, ventilators, hollow tile, ornamental iron work, fire escapes, metal lath, plastering, painting, plumbing. Plans about completed. Will take bids in about ten days.

Boat Houses, under Hanover street bridge, Baltimore, Md., \$30,000. Architects, Ellicott & Emmart, Union Trust Building, Baltimore, Md. Owners, Four Boat Club of Baltimore, Baltimore, Md. Frame, shingle roof, steam heating, electric lighting, cement and plank floors, plastering, mill work. Plans in progress.

Residence, Barn and Outbuildings, Gambrills, Md. Architect not selected. Owner, W. C. Weber, care of Crown Cork and Seal Co., 1511 Guilford avenue. Stone and frame, size of lot, 62 acres. Work contemplated.

Post Office (alts.), Baltimore, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Brick, consists of interior alterations, mill work, reinforced concrete, metal lath, tile, marble and terrazzo work, electric lighting. Lowest bid submitted by Singer-Pentz Co.,

Equitable Building, Baltimore, Md.

Service Building, Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Co., on premises. Concrete foundations, brick, 1 story, 34x60 feet, and 34x32 feet, slag roof, hollow metal skylights, ventilators, tile work, slate work (heating, electric work and painting reserved). Owners taking bids. Cowan Building Co., 106 West Madison street, Baltimore, is figuring.

Store and Apartments (alts. and add.), 926-28 North Charles street, Baltimore, Md. Architect, J. C. Spedden, 2715 Harlem street, Baltimore, Md. Owner, M. Eisen, 928 South Charles street, Baltimore, Md. Brick, 1 and 2 story addition, steam heating, electric lighting, metal bulks, metal ceilings, plumbing. Architect taking bids. Frank Marion, 4 North Caroline street; Owens & Margolius, 422 South Bond street; Frank Kreamer, South Sharp street, (all of Baltimore, Md., are figuring.

Shed for Plate Mill, Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Co., on premises. Reinforced concrete and slag roof on mill and reinforced concrete roof and sides for monitors. Owners taking bids. Consolidated Eng. Co., Calvert Building, Baltimore, Md., is figuring.

Theatre, Hopewell, Va. Architects, Blanke & Zink, Equitable Building, Baltimore, Md. Owner, S. A. Zippas, Central Building, Hopewell, Va. Brick, 1 story, 20x125 feet, slag roof, electric lighting, metal lath, tile work, plumbing. Owners taking bids.

JUST "KEEP A-GOING."

Inc calculable harm can be done by the upsetting of present commercial and business conditions as the result of senseless fear and alarm. While it is always prudent to avoid waste, it is perilous to the stability of the country to have unnecessary, panic-inspired economy and restriction. It is vitally important not to weaken in any way, and perhaps shatter, the industrial structure of the United States by needless curtailments of buying caused by a fear of possible future war conditions. It would be well to a considerable extent to let the future take care of itself, not to borrow trouble, "and just keep a-going."

So far there has been nothing in the business situation of this country that should cause the slightest uneasiness. On the contrary, all the signs appear to be pointing strongly in the right direction. There is every reason to believe that the predictions of business leaders of a coming era of unprecedented commercial and industrial activity will be more than fulfilled. Some lines of business doubtless will be characterized by a greater degree of this activity than others, but there will be scarcely any that will not share in it to some extent. The financial burdens caused by the war, great as they doubtless will be, coming, therefore, during a period of up-tide of prosperity and wealth, will not bear down nearly so heavily as would be the case under ordinary conditions.—"Sheet Metal Workers' Bulletin."

If you want Trap Rock or Slag, any size or grit, we are headquarters for same. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.



It's the Long Fire Travel in the Burnham Cosy Comfort Boiler That Makes the Short Coal Bill

If you can keep the hot gases and smoke travelling back and forth inside a boiler long enough to extract the bulk of their heat, and still not make the draft sluggish; it's plain enough that less heat will go up chimney and more heat go into your radiators.

That back and forth action is what we call fire travel. It's this long fire travel in the BURNHAM Cosy Comfort Boilers that has a lot to do with making their short coal bills.

Our Engineering Department is at your service in solving Heating Problems

KEYSTONE SUPPLY & MFG. COMPANY

Plumbing and Heating Supplies

913-42 N. 9th St., Philadelphia

MARYLAND

Contracts Awarded

Hostess House (add.), Camp Meade, Md. Architects, Wehr & Wehr, New York City. Owners, Y. W. C. A., Franklin street and Park avenue, Baltimore, Md. Frame, 2 stories, 30x30 feet. Contract awarded to Claiborne-Johnson Co., Garrett Building, Baltimore, Md.

Storage Building, Parkdale avenue and David Hill Park, Baltimore, Md., \$7,000. Architect, private plans. Owners, Wm. E. Hooper & Sons Co., Baltimore, Md. Concrete foundations, concrete and brick, 1 story, 80x136 feet, slag roof. Contract awarded to S. W. Billingsley, 2062 Woodberry avenue, Baltimore, Md.

Building (add.), 6 South Calvert street, Baltimore, Md. Architect, private plans. Owner, Charles J. Bonaparte, Baltimore, Md. Brick, 1 story, 28x28 feet, slag roof. Contract awarded to Cowan Building Co., 106 West Madison street, Baltimore, Md.

Store (alts.), Charles and Fayette streets, Baltimore, Md. Architects, Smith & May, Calvert Building, Baltimore, Md. Owners, The Hub, on premises. Consists of interior alterations, mill work, new stairwork. Contract awarded to C. L. Stockhausen, Gay and Water streets, Baltimore, Md.

Factory (add.), 700-702 East Pratt street, Baltimore, Md. Architect, private plans. Owners, Coca-Cola Co., on premises. Brick, 1 story, slag roof, steam heating, electric lighting. Contract awarded to John E. Marshall & Sons, 700 East Pratt street, Baltimore, Md.

Control House, Sparrows Point, Md. Architect, private plans. Owners, Maryland Shipbuilding Co., Sparrows Point, Md. Brick and concrete, 1 story, 98x41 feet, asphalt, slate and slag roof, electric lighting, fire doors, hollow tile, tile work, mill work, plastering, painting, plumbing, iron work, steel sash. Contract awarded to Cowan Building Co., 106 W. Madison street, Baltimore, Md.

Dwellings (6), westside of Brookfield avenue, near Whitelock street, and (3) Chaucer avenue, Baltimore, Md., \$20,000. Architect, W. B. Gerwig, 1025 North Fulton avenue, Baltimore, Md. Owner, Frank O. Singer, Jr., 600 Equitable Building, Baltimore, Md. Brick, 2 stories, slag roofs, hot water heating, electric lighting. Owner will build.

Factory, Locust Point, foot of Woodall street, Baltimore, Md. Architect, private plans. Owners, Piedmont-Mt. Airy Guano Co., Keyser Building, Baltimore, Md. Frame, 1

story, slag roof, electric lighting. Contract awarded to Charles L. Stockhausen, Gay and Water streets, Baltimore, Md.

Foundry, Scott and McHenry streets, Baltimore, Md. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore. Owners, Bartlett-Hayward Co., on premises. Concrete, steel and brick, 2 stories, slag roof, electric lighting, steam heating. Contract awarded to Morrow Bros, Fidelity Building, Baltimore, Md.

Freight Shed, Battery avenue and Hughes street, Baltimore, Md., \$15,000. Architect, private plans. Owners, New York and Baltimore Transportation Co., Hughes and McHenry streets, Baltimore. Concrete foundations, frame, 1 story, corrugated iron walls and roof. Contract awarded to John Monks & Sons, 82 Beaver street, New York City.

Gate Houses (2), Sparrows Point, Md. Architect, private plans. Owners, Bethlehem Steel Co., on premises. Concrete foundations, brick and frame, slag roof (heating and lighting, painting fence and gates reserved). Contract awarded to Cowan Building Co., 106 W. Madison street, Baltimore, Md.

Shed, Pier No. 2, Pratt street, Baltimore, Md., \$3,000. Architect, private plans. Owners, Baltimore and Carolina S. S. Co., Baltimore, Md. Frame, 2 stories, 40x66 feet. Contract awarded to E. R. Springer, 10 Uhlers Alley, Baltimore, Md.

Surgical Dressing Room, U. S. Marine Hospital, Baltimore, Md. Architect, Jas. A. Wetmore, Treasury Department, Washington, D. C. Owners, U. S. Government, Treasury Department, Washington, D. C. Brick, cement floors, tin and slag roof, steam heating, electric work. Contract awarded to Henry S. Rippe, 1939 West Baltimore street, Baltimore, Md.

Transformer House, Ramsay and Poppleton streets, Baltimore, Md. Architects, Parker, Thomas & Rice, Union Trust Building, Baltimore, Md. Owners, Bartlett-Hayward Co., Scott and McHenry streets, Baltimore, Md. Brick, concrete and steel. Contract awarded to Morrow Bros, Fidelity Building, Baltimore, Md.

Magazine Buildings (2), Contract No. 2747; **Quarters (5)**, Contract No. 2748, **Pulping and Poaching House**, Contract No. 2749; **Power House Extension**, Contract No. 2715, Indian Head, Md. Architect, private plans. Owners,

THE
Hogg Construction Co., Inc.
1634 Sansom Street
Philadelphia

BUILDING Alterations
Construction Additions
New Buildings

"Personal Attention from
Foundation Walls to
Interior Trim."

GET OUR ESTIMATE BEFORE
AWARDING A CONTRACT

U. S. Government, Department of Yards and Docks, care of C. R. Harris, Navy Department, Washington, D. C. Brick, concrete and steel. Contract awarded to the Austin Co., Bulletin Building, Philadelphia, on cost plus basis.

ARCHITECTS SERVING THE NATION.

"Everywhere members of the Board of Directors of the American Institute of Architects find among the architects of America a great desire to give freely of their ability to serve the nation," said President John Lawrence Mauran, of St. Louis, in an interview published in "The Christian Science Monitor." "I long ago directly offered the Committee on National Defense the free services of the entire Institute for any assignment it might direct. The word came back, however, that the committee could not think of accepting an offer that would entail so great a sacrifice on the part of the members of a profession who might in the course of a few years find the Government their only client and that client a gratuitous one. If the war were for only a few months, our services might be accepted, but not so with a protracted war ahead."

"Then we offered our services in the matter of camouflage and Everts Tracy, of New York, has been made chief of the department of camouflage in the United States Army. I wish I could tell you how very important that work is going to be and how extensively the deception of the enemy, by means of counterfeit presentments of emplaced guns, of railways, of hangars and all that sort of thing, is now being carried on. These are but a few of the ways in which we hope to be useful, but we expect that many others will present themselves."

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

Buy pure lime, 99% pure, no core, no grit. **DAVID FRANCE CO.**
Tasker Street Wharf, Delaware River, Phila. Both 'phones.

Permits for New Buildings

O is the abbreviation for owner. C is for contractor.

Philadelphia

Storage Building, 708 South Third street, \$3,500. Abe Spear (O and C), 329 Moore st. Brick, 1 story, 30x130 feet, slag roof.

Water Tank, Delaware and Buckius street, \$300. Penn Forge Co. (O,) Frankford. Ed. T. Bender (C), 6014 Torresdale avenue. Tank support.

Garage, 750-58 South Clarton street, \$5,000. Garrity Bros. (O and C), on premises. Brick, 2 stories, 80x50 feet, cement floors, slag roof. Garage, 4348-50-52 North Seventh street, \$6375. John Heinel (O), 4360 North Sixth street. G. J. Reich (C), 1124 Loudon street. Brick, 1 story, 51x70 feet, slag roof, stone foundation.

Alterations and Additions

Mill, Frankford and Westmoreland streets, \$500. Thos. Wotsenholm Sons Co. (O), on premises. W. E. Dyer (C), Land Title Building.

Store and Dwelling, Twenty-ninth and Oxford streets, \$750. J. H. Abramson (O), on premises. M. Nixon (C), 802 north sixth street. Change present bulks.

Store, 1638 Market street, \$3,000. Jos. Pentony (O), on premises. Smith Hardican Co. (C), 1606 Cherry street. Interior alteration.

Stable, 3438 Market street, \$1,000. Hurlock Bros. Co. (O), on premises. F. J. Ryan (C), Forty-ninth and Bartram avenue. Alterations.

Factory, Tenth and Nevada streets, \$2,000. A. Coburn Co. (O), 114 North Second street. Robt E. Lamb Co. (C), 843 North Nineteenth street. Strengthening floors.

Store and Dwelling, Fifteenth and Wolf streets, \$350. M. Gordon (O), on premises. B. Eglin (C), 633 Reed street. New bulk window.

Stable, Smick and Green Lane, \$900. J. S. Isaces (attorney for owner, L. A. Kelley, 1545 North Fifty-fourth street). Wm. R. Snyder (C), 1545 North Fifty-fourth street. Alterations.

Store, 1131 South Eighth street, \$380. Joe Gavin (O), 1430 South Fifteenth street. eCrosoli V. Seurci (C), 1231 Christian street. Alterations.

Armory, Broad, south of Race street, \$870. City of Philadelphia (O). N. Connolly (C), 1905 Ridge avenue. Low pressure steam boiler.

Chimney, Tackawanna and Orelan streets, \$2,350. Tomalino Silk Dye Co. (O), Womrath and Tackawanna street. H. R. Henicke (C), 21 South Twelfth street. Radial brick chimney.

House, Sixteenth and Callowhill streets, \$500. James Tees & Son Co. (O), Bridgeport, Pa. J. B. Hartman (C). Steam boiler.

Garage, 431-33 Lombard street, \$1,400. N. Gervins (O), 307 Pine street. Jo. Mandel (C), 417 South Sixth street. Steam heating.

Tenement House, 226 Monroe street, \$400. J. Mulchinsky (O), 2414 Bainbridge street. Fire escape.

Dwelling, 527 E. Washington Lane, \$900. J. J. O'Sullivan (O). W. John Stevens (C), Wyncote, Pa. Fire repairs.

Store, 113 North Fourth street, \$500. Chas.

Hunt (C), 5319 Walnut street. Frank Hall (C), Seventy-first and Greenway avenue. Fire repairs.

Bakery, 2335-53 Sedgeley avenue, \$3,000. Tasty Cake Co. (O), on premises. H. Lutz & Co. (C), 210 North Sixteenth street. New boiler.

Store and Dwelling, 1430 Parrish street, \$350. Mrs. Englander (O), Thirty-first and Arizona streets. Jos. Shechtman (C), 1734 North Seventh street. Repairs to side wall.

Machine Shop, 2025 Washington avenue, \$18,500. Merchant & Evans Co. (O), on premises. F. A. Havens Co. (C), 845 North Nineteenth street. Brick, 1 story, 37x47 feet, slag roof, reinforced concrete, 1 story, 63x84 feet, slag roof.

Garage, Milnor and Unruh streets, \$500. Erben Harding Co. (O and C), Tacony, Pa. Alterations.

Purpose produces three distinct things: Courage, Self-Reliance and Concentration. These qualities will equip any man for success. Courage is the disposition of heart that inspires him to attempt great things; Self-Reliance is the temper of mind that makes him believe he can accomplish great things; Concentration is the supremacy of will that causes him to achieve great things. When these three qualities are developed to their utmost and combined in equal proportion, we can call them by one name—genius. Genius is not a freak of natural endowment, but a product of conscious evolution.—Doctor Joseph H. Odell.

YOU JUST CAN'T SUIT SOME PEOPLE.

"You just can't suit some people."

"For instance?"

"Fellow had his house picked up by a cyclone and landed over in another county without being damaged."

"And yet?"

"And yet he was sore because it didn't land over a cellar-hole."—"Building Age."

Where the Newspaper "Counts" and Where it "Fails"

There are lines of business that are helped by newspaper advertising, but if you will take the trouble to look them up you will discover that they are lines in which the manufacturer is either dealing direct with the consumer or is selling something which is adaptable to general use.

Safety razors, dental creams, rubber heels belong in this category.

Everybody has use for them. The object of the advertising is confined largely to an effort to emphasize the advantages of certain makes over certain other competing makes. "Ad" men call that kind of advertising "building up a trade-mark" because its primary purpose is to fix a given make in the mind of the consumer to the exclusion of all other makes.

Building-trades advertising is quite a different story.

Here, you are selling something in which only a limited class may be said to have any interest.

If you could dig up a newspaper every copy of which found its way into the hands of an architect, or a builder, or a sub-contractor, or a building owner, it would pay you to hand up a rate of eighty cents an agate line for space.

But you can't.

When you buy space in the newspaper you pay for circulation probably ninety-eight per cent. of which represents, so far as you are concerned, dead waste.

In the building magazine this condition is diametrically reversed. As every copy goes to a reader directly interested in building, you are buying a circulation one hundred per cent. clear business prospects.

And the circulation being smaller by many thousands you are paying a very much easier rate and getting a very much more desirable "position."

You can't doubt this.

It's self-evident.

When the product to be advertised is anything to be used in building your medium is

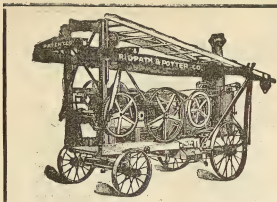
THE BUILDERS' GUIDE

Pennsylvania's Oldest and Only Architectural and Building Trade Publication.

Perry Building, Philadelphia.

The "Builders' Guide" is in its thirty-third year of continuous publication.

Washed Bar Sand and Gravel will take less cement on concrete work. We know how.
DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.



We Drill Wells and Get Water Test Borings and Soundings

LET US SUBMIT PRICES

RIDPATH & POTTER CO

487 Bourse Building
Philadelphia, Penna.

MODERN CONSTRUCTION WORK IS ACCOMPLISHED BY SCHEDULE.

Prearranged Program Followed Without Variation.

Modern construction of large scope such as the erection of a high class commercial structure or a cantonment similar to the ones recently completed in various parts of the country proceeds according to a preconceived schedule. The importance of this schedule has been demonstrated in all great projects. From the time that the old buildings upon the plot to be improved by a new structure are condemned or the site of the proposed work otherwise prepared, until the work is entirely completed and ready for occupancy, the operation is conducted along this prearranged program.

Every trade interested in the work is informed as to the date its work is to be started and these trades must make all arrangements for permits, hauling, materials and other essentials to accord with the general program. In this manner they are prepared to start operations with the minimum of delay and to complete the work in the stipulated length of time unless some unforeseen circumstances arise. As a general thing there is a margin of safety provided in the schedule for such contingencies.

Oftentimes, the general contractor for a particular structure, in consultation with the architect or engineer, will arrange a graphic chart or program of the proposed progress of the work. This illustrates the dates and duration of every branch of the work throughout the entire job. The chart or schedule includes all materials required, sub-contractors and labor, and from it it is possible to determine at a glance the relation between the chart and the actual status of the work at any moment. Delays that have occurred can be checked and the remainder of the work speeded up so as to have the final operations completed according to the original schedule.

Delays are bound to occur in the progress of any operation frequently due to conditions beyond the control of the general contractor. A program or schedule of this character, however, serves as a continual reminder of the ideal sought for and has a tendency to check delays before they become serious and in general keep things moving in an even channel.—“New York Real Estate Record.”

BUILD NOW.

Here are a few reasons why the cost of building will not come down for a long time, and why owners should build now: As long as the war lasts just that long will high prices rule. After the war the foreign governments and countries will need all, or at least a considerable portion, of our materials to rebuild their ruins. At the present time our big lumber companies have orders for millions of feet of lumber to be delivered after the war to the foreign governments. This alone will keep the price of lumber at high-water mark. Steel will not drop below \$100 a ton, as thousands of ships must be built to replace those destroyed.

The reason there is not more building at the present time is that competition has been entirely too keen the last few years, and contractors are becoming discouraged. They have reached the point where they refuse to figure a job unless there is something in it for them, and we don't blame them. Those following the building line are human like the rest of us, and are entitled to a living. For some time there has been practically no building of residences, with apartment and hotel construction almost as scarce. Residence work will be plentiful again, however, as soon as one grows accustomed to the high prices, as we must, and will, have more new homes. We cannot stop our desires for the modern conveniences of the present day which are to be found in a “home of one's own.”—“San Francisco Architect.”

TRITE SAYINGS.

The largest room in many a house is the room for improvement.

Some owners are like newspapers; they issue extras every few minutes.

A man is like a scaffold; the higher he gets the stronger he needs to be.

This is the Age of Big Business. Maurice Maeterlinck tells us that a bee alone has no intelligence and away from the hive it is lost and undone. So it is with men. We are interdependent and only as we co-operate do we do big and worthy things.

Organization is the keynote of success.

Don't lose your grip. Noah was 600 years old before he knew how to build an ark.

METHODS OF FINISHING CONCRETE.

A Georgia engineer who has had years of experience in concrete construction work, especially concrete roads, decided that the old method of finishing the concrete surface was slow and inefficient. Following his own inclination as to the best method he constructed a roller and tried it out. After a thorough trial it was found very satisfactory and now this method is well on the way to replacing all other methods. The principle employed is to roll the concrete surface lightly. The roller may be from four to six feet long, about eight inches in diameter, and weigh seventy pounds. It is moved across the road by a man standing at the roadside.

When the roller is used for finishing, the concrete is mixed more stiff than that ordinarily used for roads, and the good results obtained by rolling it seem to be due to the fact that the roller compacts the concrete considerably, squeezing out the water and making the material more dense.

Another new method of finishing concrete was recently developed. This is as follows: Two boards, six inches wide and one inch thick, each equal in length to half the width of the pavement, are spliced to make a pointed plank. Each end of the plank is provided with a gauge to keep it at the right elevation of the finished edge of the pavement when moved along the curb. A long handle is attached at each end of the plank and a man is stationed at each of these handles. They push and pull the float over the fresh concrete, finishing the entire width in this way at a single operation. This process is said to eliminate much of the excess water in the concrete and to leave a surface less gritty than that produced by belt finishing.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.

We have pebbles all sizes. Cost less than what you are using. **DAVID FRANCE CO.**, Tasker Street Wharf, Delaware River, Philadelphia.

JUST DO LIKE CAESAR DID.

When Caesar took an eastward ride and grabbed the Gauls of Rome,

What was the first thing that he did to make them feel at home?

Did he increase the people's loads and liberty forbid?

No, he dug in and built good roads—that's what Old Caesar did.

Did Caesar put the iron heel upon the foe-man's breast,

Or did he try to make them feel the Roman's rule was best?

What did he do to make them glad he'd come their midst amid?

He built good roads in place of bad—that's what Old Caesar did.

He built good roads from hill to hill; good roads from vale to vale;

He ran a good roads movement till Rome got all the kale.

He told the folks to buy at home, build roads their hills amid,

Until all roads led up to Rome—that's what Old Caesar did.

If any man would make the town the center of the map,

Where folks will come and settle down and live in plenty's lap;

If any town its own abodes of poverty would rid,

Let it get out and build good roads—just like Old Caesar did.

—"Sentinel," Grenada, Mississippi.

Lots of men don't advertise because they cherish an idea it's too expensive. As a matter of fact, it's the cheapest good investment a man can put his money in, as hundreds of successful men have learned.

PLACE AND VALUE OF THE TRADE PAPER.

"Eloquent speakers who have preceded me have told of the greatness of our American industries, and have rightly given to advertising a large measure of credit for our industrial and commercial supremacy.

They have spoken of the daily and weekly newspapers, the agricultural press, the magazines, the billboards, the street cars, and even the advertising novelties, as the forces that have played an important part in this wonderful upbuilding, but they have wholly missed the greatest force of them all—the trade and technical press of the country."—R. R. Shuman before the annual convention of the Associated Advertising Clubs at Omaha.

SPECIALIZED MEDIA FOR SPECIALIZED THINGS.

It must be evident to any thinking man that the place to advertise commodities or appliances special to any given industry is in the publications that reach that industry and that such advertising, if well written, well displayed and persistently kept up, will not only effect the desired sales, but will build up a permanent good-will asset of inestimable value. . . .—R. R. Shuman, in "Standard Advertising."

Few persons appreciate the enormous cost of advertising a popular product before it obtains popularity. One of the most successful advertisers in the country, whose income reaches hundreds of thousands of dollars annually, told *Leslie's Weekly* that he wasted at least a quarter of a million dollars "before he learned the advertising game." He estimates that he spent this amount on circulars, gaudy lithographs, sign boards, and street car advertising, out of which he received so little benefit, as for he could trace it, that he regarded the expenditure as money pretty nearly wasted.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

Do you get "The Guide" regularly? You should. Better subscribe now, while you think of it, and keep in touch. The man who fails to get and to read carefully the trade paper of his chosen line, is missing a while lot of valuable data that should be at his command.

The man who is "going to do some advertising next year—maybe" gets his advertising in the end in the shape of an obituary.

TRACING A DRAWING WITHOUT TRACING CLOTH.

Tracing cloth is affected by the amount of moisture in the air, and for that reason it is occasionally desirable to transfer a drawing to ordinary paper. This may be accomplished by the use of a glass top table beneath which are suspended several strong (60 to 100-watt) incandescent electric lamps. The strong light passes through the drawing and the superimposed paper on which the tracing is to be made. Where blueprints are desired a thin white paper can thus be used instead of tracing cloth and at less expense.

ARCHITECTURE FIRST OF ALL AN ART.

While it is unquestionable that the architect of to-day is more and more compelled to admit and provide for in his buildings the application of science in manifold directions, there remains the fact that architecture is, first and foremost, an art; that its primary function is the creation of the beautiful, says an English exchange. Beauty in architecture does not exclude but, on the contrary, is inseparable from full provision for the maximum of usefulness in every building. It connotes not only this provision but the expression of full fitness for its purpose in every part of every structure. It is in its highest achievement not the decoration of utilitarianism with a veneer of applied ornament, but the esthetic satisfaction of every necessity in appropriate, logical and pleasing form. Therefore, it is to be hoped that any extension of scientific training that may be introduced into the school of education of our future architects may not exclude such studies as tend to the development of the imagination and the acquisition of facility of expression.

ABSOLUTELY NECESSARY.

We may live without poetry, music and art;
We may live without conscience and live without heart;
We may live without friends, we may live without fads;
But business to-day cannot live without ads.

For every "one" man you can mention who has succeeded without advertising we'll agree to name ten whose greater success has been due to advertising "direct."
Moral Advertise!

We know lots of men who have made money without the aid of advertising, but— they haven't made it since 1876.

The finest automobile will not run when the tank is empty, and the finest space can not pull unless it is filled with copy that grips interest.—"Printer's Ink."

The man "who doesn't believe in advertising" can't understand why the other fellow gets the business.

Our specialty is Portland Cement that will stick and pass the City Department. DAVID FRANCE CO., Tasker Street Wharf, Delaware River, Philadelphia.

AN AWAKENING IN GARAGE ARCHITECTURE.

The main contact point between the modern revolution in transportation and the building industry is the garage. And for many years this contact point was not highly regarded by the building industry. In fact, the common attitude was to ignore it. The garage in its humble origin was too insignificant to command respect. It was classed with various small outbuildings of a farm or estate, tolerated but not recognized.

Then a few architects began to harmonize the lowly housing of the automobile with the stately residence, and it gained an artistic standing on the estate. And commercially the necessity for the public garage grew apace and many were built, just for the rentals they would yield, with no effort at style or distinction, or even special fitness for their purpose. Plain housing or shelter and an avoidance of trouble with the city building inspector seemed to be the main considerations. And to please the patrons little trifling conveniences were provided, one after another. But the garage remained an eyesore, generally speaking, a thing publicly despised as a cheap upstart, but accepted for its unavoidable utility.

But lately the garage has been coming into its own kingdom. It is receiving not only public attention, but the public's more distinguished consideration. Like the carpenter who has become a big general contractor, the garage has acquired a new status. It is being received into the best business circles and its wants are listened to and heeded.

Hereafter the garage can hold its head erect among the best types of business structures. It will unfold many marvels of appropriate use and develop into a unique and most essential building. The enormous increase in the use of automobiles has compelled the building industry to give this final and complete recognition.

The type of public garages under construction to-day are incomparably superior to their predecessors of yesterday. They are built most substantially, often of concrete, metal or masonry, and are equipped with various modern fire preventive devices. They are built several stories or more in height. Access to the upper floors is gained not by means of elevators, but by a system of ramps, extending from the main entrance on a ten or fifteen per cent. grade, built of reinforced concrete. It is thus possible for the renter to speedily and safely bet to, say, the fourth floor of the building with his machine. The ramps are of sufficient width for two cars to pass, and in the center of the ramp longitudinally is a raised edge to prevent the possibility of a collision.

And there are all manner of devices to hasten dispatch. If a man wants his car, the

number is flashed by electric light, so that it will be ready in a very few moments. And all kinds of electric checks and conveniences have been introduced.

Another of the recent acquisitions is an added privacy. The garage is divided into compartments or spaces, perhaps 10 by 22, with cement floors, electric light, steam heat and running water. The renter gets a key to his compartment, and may come and go at any hour without consulting anyone. The compartments in series of four each may be separated from each other by fireproof walls. The owner may take care of his machine or may engage an attendant to look after it. In brief, the garage is gradually taking on the qualities and the conveniences of a good hotel. And architecturally it is acquiring distinction.—"American Contractor."

"WAR AND THE LUMBER INDUSTRY."

Recent reports regarding delays in delivery of material for the construction of wooden ships justify a brief review of the war work performed by the lumber industry, and the Southern lumber industry in particular, says the New Orleans "Times-Picayune."

The Government's call for timbers and lumber has been of a volume wholly without precedent, in this country at least. It has, properly enough, demanded priority treatment in the handling of its emergency business. The lumber industry was not only summoned to produce gigantic quantities of stock, but to ship that stock with the least possible delay. Some idea of its vast volume may be gained from figures submitted in a recent report of the Southern Pine Emergency Bureau, organized to systematize and expedite the delivery of the yellow pine required. Of that wood, produced exclusively by Southern mills, the Government had ordered, at the time of the bureau's report, no less than 778,439,192 feet. Thousands upon thousands of carloads went to the great cantonments. So prompt were the deliveries that several of the cantonments were completed well ahead of the contract time. More than 3,000 cars of ship timber and material had been delivered to the shipyards during the ninety days ended October 13 last. Other millions of feet were moved simultaneously to the national guard and aviation camps and to army warehouse and depot centers.

Yellow pine is the leading Southern wood in point of production and the demands upon its manufacturers are naturally heavier than the demand upon the manufacturers of other Southern woods. But the latter have done their bit very creditably in supplying the war needs of their Government and its allies. Southern lumbermen, with very few exceptions, have "carried on" efficiently in the face of a good many obstacles. It may be worth mentioning in this connection that the Government authorities, after careful in-

vestigation of production costs, voluntarily increased the average prices paid for yellow pine ship material, whereas the prices of certain other materials—notably steel and coal—were sharply reduced after similar investigations.

A CHINESE APARTMENT HOUSE.

Some interesting particulars regarding the apartment house as it exists in China were given out a short time ago by Mr. Thomas W. Clarke, a construction engineer, recently returned from the Orient. Referring to a photograph which he had, he stated that the apartment house shown was more than 400 years old and housed about 400 families.

"It is the chief building of a village in the southern end of the Fu-Ken Province, South China, about 300 miles from Hong Kong. Built in a perfect circle, it is five stories high and is massively constructed of stone and brick. Its design shows that it was built as much for protection as for dwelling purposes. There are no windows on the outside, and enemies would have to scale the walls before they could harm those within. There is only one entrance, a very strong gate, capable of standing siege for a long time unless attacked with modern weapons. Undoubtedly the house was built to withstand the pirates and roving bands of robbers that terrorized Fu-Ken Province in the old days.

"The outside wall is about 50 feet high and about 550 feet in diameter. The interior court is 400 feet across, paved with great stone blocks. Right in the center of the yard is the communal water supply, a large cistern which is fed by the water from the roof running through terra cotta drains.

"There are no modern conveniences, and the various tenants reach their dwellings by way of bamboo ladders.

"The apartments are 12 feet wide, and the floors are made of rough-hewn lumber laid over poles of Chinese fir.

"The roof is made of heavy terra cotta tiles laid so that the edges overlap, and it is weatherproof. Furthermore, the tiles afford perfect shelter from the sun, which is hot in South China, and the top floor apartments are as cool as those lower down. The whole structure is weatherproof.

"Every apartment has its own veranda. These run around the whole interior of the house and face on the courtyard, which often serves as a market place when merchants are allowed to come in from near-by villages. The courtyard is also the meeting place of all the residents of the apartment house, and there everything of interest to the community is discussed.

"The four hundred families include considerably more than 1,000 persons, and they have a government of their own. It is not unlike the much advertised form of commission government adopted in some of the towns and cities in this country."

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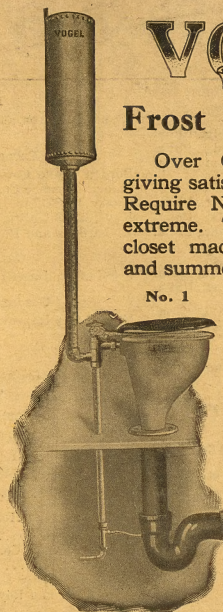
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